

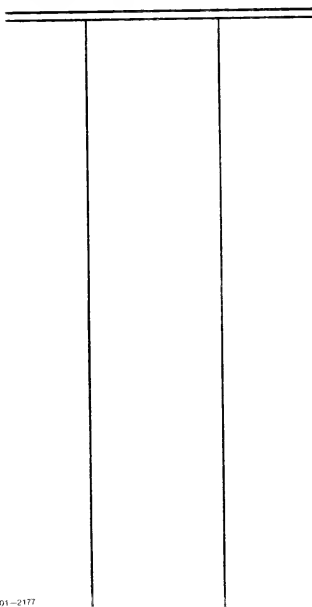
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John Laing,

Chief of Department of Mines.

WEST VIRGINIA, U. S. A.

ANNUAL REPORT

OF THE

DEPARTMENT OF MINES

FOR THE YEAR ENDING

JUNE 30, 1909

JOHN LAING,
CHIEF OF DEPARTMENT OF MINES
CHARLESTON



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ERRATA.

Page 10, ten lines from bottom should read, *compared with*, instead of *with*.

Page 11, Clarksburg Fuel Co., fifth line down, should read, *Two Lick* instead of *Two Dick*.

Page 14, Preston County, fourth line from top, should read *Coal* instead of *cool*.

Page 17, sixteen lines from bottom, should read, *Deitz, No. 5*, instead of *No. 2*.

Page 22, three lines from bottom, should read *coal* instead of *caal*.

Page 23, twelve lines from bottom, should read *Crane Creek*, instead of *Cram Creek*.

Page 25, twelve lines from bottom, should read *Bottom*, instead of *Batton*.

Page 39, fifth line should read *Rex* instead of *Rey*.

Page 61, seventeen lines from bottom, should read *New River*, instead of *New Eiver*.

Page 66, under Kanawha County, should read *Cannelton Coal Co*.

Page 307, second line from bottom, should read Counties of Lincoln, Logan, Mingo, Wayne and Cabell.



PERSONEL OF THE DEPARTMENT OF MINES.

JOHN LAINE, *Chief of the Department of Mines.*

R. S. LARUE, *Inspector for the First District.*

F. E. PARSONS, *Inspector for the Second District.*

JOHN F. BRATT, *Inspector for the Third District.*

J. A. SPRINGER, *Inspector for the Fourth District.*

EARL A. HENRY, *Inspector for the Fifth District.*

BONNER H. HILL, *Inspector for the Sixth District.*

WILLIAM WARNER, *Inspector for the Seventh District.*

*J. A. STRAUGHAN, *Inspector for the Eighth District.*

*JOHN PHILLIPS, *Inspector for the Ninth District.*

LANCE B. HOLLIDAY, *Inspector for the Ninth District.*

*D. R. PHILLIPS, *Inspector for the Tenth District.*

*JAMES G. BOYD, *Inspector for the Eleventh District.*

WILLIAM NICHOLSON, *Inspector for the Eleventh District.*

PATRICK A. GRADY, *Inspector for the Twelfth District.*

*J. A. STRAUGHAN, *Inspector until April 1st, 1909.*

*JOHN PHILLIPS, *Inspector until April 30th, 1909.*

*D. R. PHILLIPS, *Inspector until March 31st, 1909.*

*JAMES G. BOYD, *Inspector until November 15th, 1908.*

*The work in these Districts was looked after by **Special Mine Inspectors** until regular District Mine Inspectors were appointed.

LETTER OF TRANSMITTAL.

DEPARTMENT OF MINES,
STATE OF WEST VIRGINIA.

To His Excellency, W. E. GLASSCOCK,

Governor of West Virginia.

SIR:—In compliance with the Mining Law of the State of West Virginia, as amended by the Legislature in Regular session, February, 1907, I beg to submit herewith my first annual report for the Department of Mines for the year ending June 30, 1909, being the fifth annual report of the Department of Mines, and embracing the twenty-seventh annual report upon the condition of the coal mines within the State, as reported by the several District Inspectors.

Very respectfully,

JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va., December 18th, 1909.

ANNUAL REPORT

ANNUAL REPORT.

To the Governor:

The report herewith is for the year ending June 30th, 1909.

On December 21st, 1908, the writer was appointed by Gov. Wm. O. Dawson to succeed Mr. James W. Paul, as Chief of the Department of Mines, the latter having accepted a position with United States Geological Survey, Technologic Branch, at their Pittsburg Testing Station.

During the past year there has been a very gradual movement towards the restoration of normal business conditions throughout the state, which has resulted in an increased tonnage in both coal and coke over the production of 1908.

The market conditions affect the production of coal and coke in this State, perhaps more than in others, on account of the distance from the principal markets. However, the superior quality of West Virginia coal has tended to create a demand for it, and thereby caused a production it would not otherwise have.

INSPECTIONS MADE.

The District Inspectors during the year made a total of 2,101 records of inspections and visits to the mines. Included in these are a number of visits for the purpose of conferring with the officials relative to improvement of conditions within the mines.

LABOR IN MINES.

Several efforts have been made to ascertain the number of different nationalities that are employed within the mines of the State, but owing to the incomplete reports made by some of the operators the efforts have been only partially successful.

On page 93 of this report may be found a summary of the nationalities employed. The table is complete with the exception of listing the nationalities of 10,661 persons.

Out of a total of 62,189 persons employed the nationality is reported upon 51,528 and of this number there are 24,696 white Americans, 10,550 Negroes, 6,585 Italians, 3,183 Hungarians, 1,596 Slavish, 1,512 Polish, and 3,406 employes of 18 other nationalities.

RESIGNATIONS.

Mr. James W. Paul resigned as Chief of the Department of Mines October 10th, 1908, to accept a position with the United States Geological Survey, headquarters in Pittsburg, Pa.

Mr. James G. Boyd, District Inspector of the Eleventh District, November 15, 1908.

Mr. J. A. Straughan, District Inspector of the Eighth District, March 31, 1909.

Mr. D. R. Phillips, District Inspector of the Tenth District, March 31, 1909.

Mr. John Phillips, District Inspector of the Ninth District, April 30, 1909.

APPOINTMENTS.

Mr. L. B. Holliday was appointed District Inspector for the Ninth District May 12, 1909, to succeed Mr. John Phillips.

PRODUCTION OF COAL AND COKE.

From the 713 producing mines operated by 391 firms, together with the small country mines, the coal produced during the fiscal year 1909 was 41,693,766 gross tons, an increase over the previous year of 2,326,756 tons.

The coke manufactured was 3,125,451 net tons, an increase of 147,188 tons over the previous year.

The total gross revenue obtained from the coal and coke summarized as follows:

Total value of coal produced	\$39,609,079	20
Less value of coal used for steam at the mines... \$ 714,385	75	
Less value of coal used in coke ovens.....	4,414,559	75
	5,128,945	50
Total value of coal sold.....	\$34,480,133	70
Total value of coke produced.....	5,577,276	63
Total gross value of product placed on the market.....	\$40,057,410	33

From the following it is found that the increased value over the previous year was: coal, \$2,325,490.96; and a decrease in coke of \$838,490.79.

The coal produced was disposed of in the following manner.

	(Tons of 2,240 lbs.)
Used in operating the mines.....	751,985
Furnished local trade and tenants	380,430
Used in the coke ovens.....	4,646,905
Shipped from the mines.....	35,734,446
Total.....	41,513,766

The above tonnage compared with the previous year.
Originated in the several Geographical Districts as follows:

Districts.	1909.	1908	Changes.
Potomac.....	1,928,937	1,785,305	I 143,632
Monongahela.....	9,326,064	9,603,317	D 277,253
Wheeling.....	888,578	1,037,682	D 149,104
Interior.....	153,840	157,166	D 3,326
Kanawha-New River.....	14,136,752	13,297,923	I 838,829
Norfolk & Western.....	15,079,595	13,305,617	I 1,773,978
Small mines in State.....	180,000	180,000	
Totals.....	41,693,766	39,367,010	I 2,326,756

MACHINE MINED COAL.

The quantity of coal mined by the use of machines was 16,419,264 tons which is 39.55 per cent. of the total coal production of the state and 1,031,569 tons in excess of the machine coal during the year 1908. There were 1,674 machines in use at 404 mines and furnished employment to 14,891 persons.

The following tabulation exhibits the growth of machine mining since 1897:

PROGRESS OF MACHINE MINED COAL 1897 TO 1909, INCLUSIVE.

(Tons of 2,240 lbs.)

YEAR.	No. of Mines Using Ma- chines.	No. of Ma- chines in use.	Total Em- ployes In- cident to Ma- chines	Tons Pro- duced by Machines.	Percentage of Coal to Total Coal Production	Days Worked
1897.....	16	55	652	600,418	5.12	197
1898.....	28	96	933	1,070,293	7.4	214
1899.....	41	141	1,608	1,733,279	10.66	240
1900.....	63	241	2,371	2,537,611	13.43	261
1901.....	90	386	3,967	3,582,853	17.65	225
1902.....	124	534	4,813	5,135,823	21.98	249
1903.....	181	795	6,531	6,312,894	27.50	201
1904.....	248	988	8,395	8,317,692	30.82	209
1905.....	280	1,158	10,237	10,315,781	32.74	213
1906.....	301	1,267	10,855	13,333,602	35.65	231
1907.....	360	1,508	12,248	14,549,183	36.34	234
1908.....	399	1,657	14,377	15,387,605	38.09	211
1909.....	404	1,674	14,891	16,419,264	39.55	192
Totals.....		10,500	91,879	99,296,388		Av 221

Tons for 1909, per each employe.....1.103

Tons per each employe per year (average for 13 years).....1.081

Tons produced by each machine per year (average for 13 years).....9,552

Average days worked per year (average for 13 years).....221

Average tons produced by one machine per day (average for 13 years).....432

Average tons produced by one machine per month of 26 days (average for 13 years).....1.124

TONS OF PICK MINED COAL PRODUCED PER EACH PICK MINER IN COMMERCIAL COAL MINES, 1897 TO 1909, INCLUSIVE.

(Tons of 2,240 lbs.)

YEAR.	Pick Coal from Com- mercial Mines.	Pick Coal from Small Country Mines.	Pick Miners in Com- mercial Mines.	Pick Miners in Small Country Mines.	Days Worked.	Tons Produced in Com- mercial Mines per Pick M'n's
1897.....	10,971,482	133,929	13,218	No. rec'd	197	830
1898.....	13,084,572	140,000	14,036	"	214	932
1899.....	14,366,871	150,000	14,119	"	240	1,017.5
1900.....	16,199,300	150,000	14,723	"	261	1,100
1901.....	16,533,138	175,000	16,000	"	225	995
1902.....	18,043,200	180,000	15,969	"	249	1,120.8
1903.....	16,420,804	180,000	16,287	"	201	1,008
1904.....	18,497,025	170,000	18,880	"	209	979.7
1905.....	21,007,248	180,000	19,602	"	213	1,071.7
1906.....	25,889,872	180,000	19,132	"	231	1,248.7
1907.....	25,311,128	180,000	19,287	"	234	1,312
1908.....	23,799,315	180,000	21,728	"	211	1,065.3
1909.....	25,094,502	180,000	22,583	"	192	1,110.3
Totals.....	243,218,517	2,178,929	225,564		2,877	

Average tons per year for each miner (13 years).....1.078

Average time worked per year (13 years).....221 days

ACREAGE MINED.

The total acreage of coal mined within the State, based upon returns made by the operators, and calculations of this office, since 1897 is presented in the following tables:

1897.....	1,733.9	Acres.
1898.....	2,184.6	"
1899.....	2,361.2	"
1900.....	2,638.8	"
1901.....	2,854.6	"
1902.....	3,352.0	"
1903.....	3,222.3	"
1904.....	3,967.7	"
1905.....	4,691.8	"
1906.....	5,516.5	"
1907.....	5,779.7	"
1908.....	5,915.0	"
1909.....	6,608.0	"
Total.....	50,827.3	"

DAYS WORKED.

The mines in the State averaged 192 days against 211 for the previous year.

TRANSPORTATION OF COAL AND COKE.

During the year the railroads within the State report having handled a total tonnage of 39,101,554 tons of coal, and 3,560,604 tons of coke, of which amounts there originated on the various lines 36,702,121 tons of coal and 2,895,315 tons of coke, while the coal operators report having shipped from the mines 35,734,146 net tons of coal. Between the tonnage originated on the railroads and that reported as shipped from the mines there is a difference of 3,367,108 net tons in excess of the tonnage reported by the railroads. This may be attributed to the railroads not having reported the fuel handled by the railroads three of which failed to report the tonnage of West Virginia fuel consumed by their railroads.

KANAWHA RIVER SHIPMENTS.

For the fiscal year ending June 30th, 1909, the tonnage of coal and coke floated down the Great Kanawha River amounted to:

Coal 1,027,360 net tons. Coke—none reported. This does not include the tonnage of fuel consumed by water craft and local river trade.

COKE OVENS AND COKE PRODUCED.

At 99 coke plants there is reported a total of 19,266 ovens, of which number 9,148 were in active service for 197 days, there being 10,118 ovens reported not in use during the year.

In the manufacture of 3,115,797 net tons of coke there was used 5,153,268 tons of coal, furnished employment to 3,603 persons.

The increase in the production of coke over the previous year was

137,534 tons at a decrease valuation of \$838,490.79. The average price per ton of coke was \$1.79, a decrease of 37 cents per ton during the year.

IMPROVEMENTS.

Many improvements made and some new construction was had during the year including 31 new coal plants; 12 power plants; 30 coke ovens; 27 mine fans; 2 furnaces; 13 tipples; 32 additional openings at old mines.

A detail table of improvements appears on a subsequent page to which special attention is directed, showing the improvements by counties.

MEN EMPLOYED.

During the year there were employed at the mines and coke ovens an average of 62,189 persons, an increase of 1,252 over the previous year. Of the total employes 22,583 were pick miners; 2,750 machine runners and helpers; 12,141 machine miners; 13,093 inside laborers; 3,607 coke workers and 8,015 outside laborers.

To count the mine foremen, superintendents, store managers and clerks employed at the mines it would be safe to add 2,100 persons to the total above, making the total employes directly connected with the operation of the mines 64,289.

WAGES.

The average price received by pick miners through the state per gross ton of run of mine coal was 43 cents against 46 cents the previous year.

Each pick miner averaged a production of 1,113 tons during the year, being 28 tons more than the previous year.

The average yearly wages received per pick miner was \$481.17, a decrease of \$22.67 under the previous year.

The following table exhibits the average prices received for cutting and loading machine coal:

MACHINE MINING PRICES.

Machine miners paid per ton, run of mine in rooms.....	29
Machine miners paid per ton, run of mine in headings.....	32
Machine miners paid per ton, screened in rooms.....	54
Machine miners paid per ton, screened in headings.....	57
Machine runners paid per day.....	2 50
Machine runners paid per ton, run of mine in rooms.....	67
Machine runners paid per ton, run of mine in headings.....	69
Machine runners paid per car.....	11
Machine runners paid per ton screened.....	10

SELLING PRICES.

The average selling price at the mines of all coal shipped was 95 cents per gross ton of run of mine, an average of 11 cents per ton under the price received during the previous year.

Coke at the ovens sold on an average for the year at \$1.79 per ton, a decrease of 37 cents under the previous year.

STRIKES.

At 52 mines, strikes were had during the year, involving 5,423 employes, and a reported loss in wages of \$61,753.63 and to the operators a loss of \$24,792.50.

ACCIDENTS.

During the year there were 364 lives lost, 340 were inside and 24 outside of the mines, and of the 340 inside there were 125 killed in four accidents.

A total of 1032 non-fatalities occurred at mines of which 949 were inside and 83 outside of the mines.

From December 29th, 1908, to January 12th, 1909, inclusive, a total of 15 days there were 117 lives lost in two explosions, 49 in one and 68 in another.

Briefly summarized the explosions in which two or more persons were killed are as follows:

	Killed
September 15th, 1908, Chatham Air Shaft, Marion County, (Gas).....	3
March 31st, 1909, Echo Mine, Fayette County, (Powder).....	6
December 29th, 1908, Lick Branch Mine, McDowell County, (Dust).....	49
*January 12th, 1909, Lick Branch Mine, McDowell County, (Dust).....	67
Total killed	125

Had it not been for the unusual severity of the explosions, the death rate due to accidents would have been very much below the normal fatality ratio.

Each of the accidents above listed, is fully described in another part of this report, and special attention is directed to the circumstances under which these horrible calamities occurred.

The principal agent of destruction in the greatest of these explosions was dust.

During the year 1909 the causes and lives lost inside summarized:

Killed by explosions all forms.....	132
Killed by fall of roof.....	147
Killed by mine cars (inside and outside).....	41
Killed by other causes.....	44
Total	364

Greater care should be exercised to prevent accidents by falls of roof and by mine cars.

The every day fatalities does not impress public sentiment to the same extent as explosions, although the number killed by falls and mine cars have previously outnumbered those killed by explosions.

Since 1897 there have been killed inside the mines of the State by falls of roof 1227 persons; by mine cars 191 persons; by gas explosions, 127; by dust explosions 484; and by all other causes 533 persons.

As to the length of experience of persons killed and injured, for the past nine years from 1901 to 1909 inclusive, there were injured and killed the following number of persons:

Having a mine experience of one year or less.....	1,389	persons.
2 to 5 years.....	1,596	"
6 to 10 years.....	687	"
11 to 25 years.....	425	"
26 to 50 years.....	65	"
Many years	164	"
Unknown	913	"
Total	5,238	"

The Department has no percentage of persons employed, with their terms of experience, but the table above is ample proof that a greater number having a year or less experience suffers the greatest loss.

Since 1883 the average lives lost inside for every 1,000 persons employed inside the mines, 3.52.

During the year 1908 the ratio per each 1,000 was 12.24, but for the past year the ratio was 6.72.

*One body being found too late for tabulation.

ELECTROCUTIONS.

During the year twelve lives were lost by electrocution, from 1899 to 1909 inclusive, there have been over 38 lives lost by electrocution within the mines.

FATAL ACCIDENTS INSIDE, THEIR CAUSES, SINCE 1897.

Causes	1897	1898	1899	1900	1901	1902
Falls of roof.....	47	67	64	61	76	79
Mine Cars.....	6	6	7	11	11	13
Gas Explosions.....		1		50	10	
Dust Explosions.....						
All other causes.....	7	2	8	11	24	18
Total.....	60	76	79	132	121	110

Causes	1903	1904	1905	1906	1907	1908	1909
Falls of roof.....	96	95	105	99	130	155	144
Mine cars.....	12	12	18	16	20	28	31
Gas Explosions.....	24	3	1	4	29	2	3
Dust Explosions.....						368	116
All other causes.....	15	13	52	131	136	46	70
Total.....	147	123	176	250	324	509	364

SUMMARY OF ACCIDENTS INSIDE THE MINES 1909-1908.

(I—means increase. D—means Decrease.)

	1909	1908	Changes
Number of employees inside.....	50,567	48,938	1,629 I
Number of days mines were operated.....	192	211	19 D
Number of persons killed inside.....	340	599	259 D
Number of days work accomplished.....	9,708,864	10,325,918	617,054 D
Number killed per 1000 employees inside.....	6.72	12.24	552 D
Number killed per 1000 days worked inside.....	.0350	.0441	.0091 D
Number injured non-fatally inside.....	936	779	157 I
Number injured per 1000 employees inside.....	18.512	17.409	1.103 I
Number injured per 1000 days worked inside.....	.0964	.0754	.0210 I
Number of inside employees for each fatality inside.....	148	122	26 I

TONNAGE PER FATALITY.

Since 1883 the average tons of coal produced per each fatality have been 217,723, including 1909, which is 114,048 tons per fatality. At those mines where fatal accidents occurred there was an average of one life lost for each 54,093 tons of coal produced.

The total of 349 lives lost inside occurred at 173 mines, employing 20,556 persons and producing 18,292,517 gross tons of coal, while at all other mines there were produced 23,121,249 tons of coal without the loss of a single life inside the mines.

SAFETY POWDERS.

During the last two years there have come into use several makes of so called Safety explosives, some of which have been used with good effect in blasting coal and safety to the miner. In order to give the mining officials in the different parts of the state an opportunity to become acquainted with the objects, methods and results of the tests made at the Pittsburg Testing Station of the United States Geological Survey, arrangements were made with the Government officials in charge of the Station to make tests of black powder and the different permissible explosives fired in the presence of gas and coal dust.

And on the 10th, 17th and 24th days of April, 1909, I accompanied delegations from the different sections of the State to witness these tests, which were very conclusive and convincing as to the dangerous character of accumulations of gas and coal dust where blasting with black powder is done.

PERMISSIBLE EXPLOSIVES TESTED PRIOR TO MAY 15, 1909.

Brand.	Manufacturer.
Ætna coal powder A	Ætna Powder Co., Chicago, Ill.
Ætna coal powder B	Do.
Carbonite No. 1	E. I. Du Pont de Nemours Powder Co., Wilmington, Del.
Carbonite No. 2	Do.
Carbonite No. 3	Do.
Carbonite No. 1 L. F.	Do.
Carbonite No. 2 L. F.	Do.
Coal special No. 1	Keystone Powder Co., Emporium, Pa.
Coal special No. 2	Do.
Coalite No. 1	Potts Powder Co., New York City.
Coalite No. 2 D	Do.
Collier dynamite No. 2	Sinnamahoning Powder Co., Emporium, Pa.
Collier dynamite No. 4	Do.
Collier dynamite No. 5	Do.
Masurite M. L. F.	Masurite Explosives Co., Sharon, Pa.
Meteor dynamite	E. I. Du Pont de Nemours Powder Co., Wilmington, Del.
Monobel	Do.

DISTRICT INSPECTORS' REPORTS.

Elsewhere in this report will be found the annual report of the district mine inspectors upon the condition of the mines in their respective districts.

The writer desires, in conclusion, to express his appreciation of the confidence reposed in him by your Excellency in his conduct of the affairs pertaining to this Department.

Respectfully Submitted,

JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va., December 3d, 1909.

SUCCESSION OF THE PRINCIPAL COAL BEDS IN THE STATE OF
WEST VIRGINIA, WITH NAMES COMMONLY USED
FOR THEIR DESIGNATION.

Dunkard Series XVI.

1. Washington Coal.
2. Waynesburg A.

Monongahela Series XV.

1. Waynesburg.
2. Uniontown (Chestnut Oak.)
2. Sewickley.
4. Redstone.
5. Pittsburg Coal.

Conemaugh Series XIV.

1. Elk Lick, Four-foot—Mineral Co., Barton.
2. Harlem, Friendsville, Crinoidal.
3. Bakerstown, Price, Four-Foot—Preston Co.
4. Brush Creek, Masontown, Mahoning?

Allegheny Series XIII.

1. Upper Freeport, Griffithsville.
2. Lower Freeport, Hubbardstown Upper.
3. Upper Kittanning.
4. Middle Kittanning, Hocking Valley, Hubbardstown Lower.
5. Lower Kittanning, "Roaring Creek", "No. 5 Block", "Big Bed" North Coalburg, Mason, Davis, O'Brien Creek.
6. Clarion, Brookville.

Kanawha Black Flint—Pottsville Series XII—Upper Pottsville or Kanawha Coals.

1. Stockton, Lewiston?, Belmont, Cannelton, Thomas, Savage.
2. Coalburg, Acme, (Buffalo Creek)?
3. Winifrede, Kanawha, Black Band?
4. Chilton.
5. Cedar Grove, Thacker?
6. Peerless, Alma.
7. No. 2 Gas, Campbell's Creek, Warfield, Rawl, Ansted, Island Creek, Powellton Upper, Page Upper, Montgomery, "Coal Valley Gas" Coal, Butler.
8. Powellton, Brownstown.
9. Eagle, No. 1 Gas Coal.
10. Little Eagle.
11. Upper War Eagle? (Possibly same as Eagle.)
12. Middle War Eagle.
13. Lower War Eagle.

Middle Pottsville or New River Coals.

1. Hughes Ferry, Long Point.
2. Jaeger.
3. Sewell, Nuttall, New River, Davy? Tug River?
4. Welch, Smith, Big Creek, Lambert, Dismal Creek? Hemphill, Tug River Smokeless.
5. Beckley, Winding Gulf, Slab Fork, Eccles Shaft, Raleigh, New River, White Stick, "Noah Jenkins." War Creek?
6. Fire Creek, Quinnimont, New River.
7. Little Fire Creek.

Lower Pottsville or Pocahontas Coals.

1. Thin coals not mined (Pocahontas Nos. 9, 8, 7, 6 & 5.)
2. Pocahontas No. 4, Lower Horsepen?
3. Pocahontas No. 3, Echols? Flat Top.
4. Pocahontas Nos. 2 & 1, not mined.

NOTE:—Where the name of the coal is followed by an interrogation mark (?) there exists some doubt as to the correlation.

LARGE PRODUCERS.

The following 38 companies each produced over 200,000 gross tons of coal during the year.

Fairmont Coal Co.	3,400,734
New River Company	1,903,917
Davis Coal & Coke Co.	1,849,305
United States Coal & Coke Co.	1,712,571
United States Coal & Oil Co.	1,120,885
Pocahontas Consolidated Collieries Co.	1,102,560
Sunday Creek Co.	925,498
New River & Pocahontas Cons. C. Co.	874,478
Cabin Creek Consolidated C. Co.	861,165
Boomer Coal & Coke Co.	623,880
New River Collieries Co.	531,762
McKell Coal & Coke Co.	512,787
Red Jacket Consolidated Coal Co.	481,541
Paint Creek Collieries Co.	481,458
American Coal Co.	472,144
Clarksburg Fuel Co.	439,498
Georges Creek Coal & Iron Co.	428,119
Turkey Gap Coal & Coke Co.	369,747
Raleigh Coal & Coke Co.	367,908
Davis Colliery Co.	367,615
Mill Creek Coal & C. Co.	357,178
The Virginia & Pittsburg C. & C. Co.	345,127
The Century Coal Co. of W. Va.	332,250
Elkins Coal & Coke Co.	298,218
Houston Coal & Coke Co.	294,194
Pulaski Iron Co.	290,152
The Empire Coal & Coke Co.	287,344
Federal Coal & Coke Co.	267,745
New Central Coal Co.	265,142
Thacker Coal & Coke Co.	245,793
West Virginia Colliery Co.	238,770
Page Coal & Coke Co.	232,226
Crozer Coal & C. Co.	226,754
Pittsburg & Fairmont Fuel Co.	223,375
Maderia-Hill-Clark Coal Co.	217,365
The Campbells Creek Coal Co.	210,081
Loup Creek Colliery Co.	203,018
The Carver Bros. Co. (including Mecca Coal & Coke Co.)	200 808

STATISTICAL

*COAL TONNAGE OF THE LEADING COAL PRODUCING STATES FOR
THE CALENDAR YEAR 1908.*

Figures Taken from the U. S. Geological Survey's Report on Coal for 1908.

(Ton of 2000 lbs.)

Pennsylvania	{ Bituminous	117,179,527
	{ Anthracite	83,268,754
Illinois		47,659,690
West Virginia		41,897,843
Ohio		26,270,639
Indiana		12,314,890
Alabama		11,604,593
Kentucky		10,246,553
Colorado		9,634,973
Iowa		7,161,310
Kansas		6,245,508
Tennessee		6,199,171
Wyoming		5,489,902
Maryland		4,377,093
Virginia		4,259,042
Missouri		3,317,315
Washington		3,024,943
Oklahoma (Indian Territory)		2,948,116
Total		403,099,862
Total for all other states		12,742,836
Total for the United States		415,842,698
West Virginia for year ending June 30, 1909.....		46,697,018

(Report of the Department of Mines of West Virginia.)

THE FOLLOWING TABLE EXHIBITS A COMPARATIVE STATEMENT AND SUMMARY OF THE ANNUAL REPORTS
FOR 1909 AND 1908.

	For year ending June 30, 1909.	For year ending June 30, 1908.	Increase of 1909 over 1908.	Decrease of 1909 under 1908
Number of counties in which coal is mined on a commercial scale.....	33	33		
Number of firms operating coal mines on a commercial scale.....	387	388		
Number of openings of all kinds subject to the mining law.....	709	717		8
Number of tons (2,240 lbs.) of pick mined coal from commercial mines.....	25,274,502	23,799,315	1,475,187	
Number of tons (2,240 lbs.) of machined mined coal from commercial mines.....	10,419,264	15,487,085	1,031,569	
Total number of tons (2,240 lbs.) of coal from commercial mines.....	41,513,766	39,187,010	2,326,756	
Estimated tons of coal from small mines (tons of 2,240 lbs.).....	180,000	180,000		
Total number of tons of coal from all mines (2,240 lbs.).....	41,693,766	39,367,010	2,326,756	
Number of tons of coal converted into coke (2,000 lbs.).....	5,153,268	5,062,706	90,562	
Number of tons of coke manufactured (2,000 lbs.).....	3,115,737	2,978,263	137,474	
Number of tons of coke at the mines.....	39,009,079.20	41,528,220.00		1,929,151.40
Total value of coke at the mines.....	5,504,557.29	6,433,048.08		838,490.79
Value of a ton of coal at the mines (2,240 lbs.).....	1.79	1.06		.11
Value of a ton of coke at the ovens (2,000 lbs.).....	1.674	2.16		.37
Number of mining machines in use.....	9,225	10,525		1,290
Average number of coke ovens in use.....	132	211		19
Number of days the mines were in operation.....	263	216		47
Number of days the ovens were in operation.....	22,583	21,728		855
Number of pick miners employed in commercial coal mines.....	14,891	14,377		514
Number of machine operators and miners employed in commercial coal mines.....	13,093	12,833		260
Number of underground laborers in commercial coal mines.....	8,015	7,555		460
Number of outside employees connected with the commercial coal mines.....	3,007	3,904		297
Number of coke employees.....	62,189	60,397		1,792
Total number of men employed at the commercial coal mines and ovens.....	102,364	92,025		261
Number of men killed.....	432	832		180
Number of men injured non fatally.....	174	96		74
Number of men employed for each man killed.....	238	71		11
Number of men employed for each man injured.....	114,639	62,089		5,768
Tons of coal mined in commercial mines for each fatality.....	40,226	45,494		136
Tons of coal mined in commercial mines for each non-fatality.....	141	277		257
Number of wives left widows.....	324	281		682.9
Number of children left fatherless.....	6,008	5,915.03		
Acres of coal worked out.....				
Number of tons of coal produced in commercial mines per miner.....	1,113	1,082		28
Pick and machine miners and runners included.....	481.17	503.24		22.67
Average earnings of each pick miner per year.....	40.10	41.00		1.89
Average earnings of each pick miner per month.....				.03
Average price per ton of 2,240 lbs. for mining run of mine coal (cents).....	.43	.46		

TABLE SHOWING PRODUCTION OF COAL AND COKE FOR THE YEARS 1883 TO 1909 INCLUSIVE.

*YEARS.	COAL. (Tons of 2,240 lbs.)	COKE. (Tons of 2,000 lbs.)	YEARS.	COAL. (Tons of 2,240 lbs.)	COKE. (Tons of 2,000 lbs.)
1883	2,895,565	190,889	1897	11,705,829	1,374,497
1884	3,000,000	182,000	1898	14,294,865	1,742,256
1885	3,008,031	187,619	1899	16,250,150	1,950,179
1886	3,213,033	228,623	1900	18,886,911	2,496,107
1887	4,207,039	481,477	1901	20,290,991	1,932,912
1888	4,799,611	517,317	1902	23,359,083	2,249,744
1889	4,663,857	506,716	1903	22,913,698	2,483,376
1890	5,643,946	892,490	1904	26,984,715	2,276,451
1891	7,281,427	1,208,418	1905	31,503,029	2,738,777
1892	7,777,570	1,333,439	1906	37,403,474	3,534,314
1893	9,758,991	1,090,909	1907	40,040,311	3,828,649
1894	9,427,028	1,067,156	1908	39,367,010	2,978,263
1895	9,878,089	1,204,657	1909	41,671,403	3,006,561
1896	12,062,468	1,594,691			

*Calendar years 1883 to 1887 inclusive. Since 1887 the Coal and Coke Statistics have been given for the fiscal year ending June 30th.

TABLE SHOWING THE COKE PRODUCTION BY COUNTIES FROM 1897 TO 1903 INCLUSIVE.
(Tons of 2,000 lbs.)

COUNTIES.	1897	1898	1899	1900	1901	1902	1903
Barbour		1,350	5,980	12,579	12,666	15,682	20,991
Fayette	329,089	394,052	454,999	481,699	442,411	515,398	437,090
Harrison		5,419	5,871	15,994	5,190	16,572	62,382
Kanawha	20,132	21,578	10,983	32,665	30,722	29,722	25,789
Marion	142,043	149,060	155,985	298,119	118,285	210,451	282,924
McDowell	567,050	731,681	923,166	1,070,033	953,702	929,433	1,016,988
Mercer	115,522	149,061	192,932	207,277	167,769	175,083	167,567
Monongalia	2,778	12,337	5,204	17,077	5,777	19,948	30,509
Preston	19,567	28,450	34,023	46,250	6,500	18,990	34,627
Raleigh	18,454	20,007	20,398	15,460			
Randolph				3,223	13,498	38,845	120,387
Tucker	159,842	220,261	140,638	295,731	176,302	279,680	284,122
Taylor							
Upshur							
Totals	1,374,497	1,742,256	1,950,179	2,496,107	1,932,912	2,249,744	2,483,376

TABLE SHOWING THE COKE PRODUCTION BY COUNTIES FROM 1904 TO 1909 INCLUSIVE.
(Tons of 2,000 lbs.)

COUNTIES.	1904	1905	1906	1907	1908	1909
Barbour	19,128	11,967	17,643	34,050	44,359	27,203
Fayette	434,919	430,163	614,428	615,577	415,425	525,154
Harrison	621		768	22,300	1,092	275
Kanawha	9,547	19,993	31,527	18,287	12,124	
Marion	102,416	127,850	171,621	233,700	105,743	65,213
McDowell	1,170,300	1,380,805	1,689,426	1,744,819	1,681,884	1,733,479
Mercer	190,132	267,697	318,357	313,117	219,597	220,681
Monongalia	22,999	42,802	58,264	113,031	76,586	117,254
Preston	27,611	79,757	142,236	222,846	138,644	175,915
Raleigh					497	
Randolph	77,077	146,243	231,616	244,054	129,273	128,401
Tucker	221,801	231,500	253,492	262,951	149,229	97,684
Taylor				1,747		5,302
Upshur				2,100	4,010	
Totals	2,276,451	2,738,777	3,534,314	3,828,649	2,978,263	3,006,561

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1888 TO 1897 INCLUSIVE.

(Tons of 2,240 pounds)

COUNTIES.	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897
Barbour							7,736			31,658
Brooke	17,108	19,203	32,857	33,999	35,046	29,375	32,445	50,013	49,623	42,108
Fayette	1,522,430	989,276	1,302,355	1,737,617	1,564,549	2,350,250	1,195,102	2,162,080	3,253,547	2,903,061
Hancock										33,838
Harrison	113,030	111,440	128,964	113,268	142,960	248,080	275,297	204,442	155,772	291,249
Kanawha	982,310	976,286	1,021,386	1,209,386	1,175,371	1,210,749	1,143,623	1,078,253	1,088,737	1,012,745
Logan							52,673	40,610		
Marion	253,675	245,809	403,900	722,594	903,806	958,293	1,186,342	1,198,336	1,219,017	1,308,682
Marshall	59,172	84,606	110,418	118,242	166,893	110,530	84,037	137,762	148,128	162,306
Mason	85,870	126,797	129,744	116,598	123,323	141,104	92,764	171,074	101,418	111,535
McDowell		245,760	504,222	744,863	1,000,882	1,876,838	2,340,581	2,240,551	2,836,013	2,617,917
Mercer	762,645	744,863	744,403	1,210,723	1,175,141	1,193,574	883,942	835,379	1,308,417	873,300
Mineral	468,618	433,365	512,217	623,067	473,862	537,488	489,808	614,780	554,492	537,189
Mingo								95,279	111,800	297,789
Monongalia		6,850	28,000	46,100	70,062	97,905	62,125	47,653	52,080	31,288
Ohio	137,678	159,664	92,487	80,738	82,534	48,681	49,821	88,491	122,103	95,578
Preston	147,290	134,925	150,320	134,467	82,080	105,618	39,936	52,385	116,361	130,211
Putnam	135,100	107,325	183,184	156,856	154,962	197,763	148,474	122,657	161,555	131,522
Raleigh							48,565	84,762	89,279	63,701
Randolph						937				
Taylor	66,439	177,901	68,403	83,851	74,000	68,498	72,229	86,536	43,469	178,307
Tucker	48,256	79,647	219,087	189,050	369,320	538,950	418,805	316,345	523,624	647,665
Wayne					55,920	21,839	40,729	21,101	2,000	
Small Mines									125,000	133,929
Totals	4,599,611	4,663,857	5,643,946	7,281,427	7,777,570	9,758,901	9,427,028	9,878,069	12,062,468	11,765,829

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1898 TO 1909 INCLUSIVE.

(Tons of 2,240 lbs.)

COUNTIES.	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Barbour	48,690	63,275	73,041	226,047	394,768	525,924	690,897	556,158	678,253	776,245	829,046	735,033
Brooke	56,733	63,176	61,386	63,904	55,857	24,266	37,804	183,803	578,312	526,497	438,284	449,647
Braxton										59,774	91,024	91,024
Boone											3,451	3,451
Clay										40,252	42,461	25,797
Fayette	3,980,266	4,446,469	4,547,002	5,375,702	5,724,882	4,075,324	2,650,217	6,738,343	7,025,897	7,277,297	6,851,271	7,307,747
Grant						28,489	113,989	167,053	228,857	271,542	242,442	177,463
Gilmer										312	6,697	14,740
Greenbrier											32,265	32,265
Hancock	42,870	30,440	47,013	30,357	38,085	70,495	69,700	58,029	53,557	78,280	63,511	46,753
Harrison	271,554	413,150	617,430	1,088,715	1,662,144	2,108,336	2,445,292	2,560,905	3,030,737	3,343,319	3,168,042	3,005,689
Kanawha	1,213,116	1,293,068	1,456,800	1,727,115	1,853,386	1,578,532	2,792,078	3,126,638	4,086,102	4,023,101	4,323,739	4,133,213
Lincoln					12,053	53,330	31,744	7,655	15,801	17,389	25,004	49,364
Lewis									3,528	5,328	22,640	13,780
Logan										740,697	1,215,029	1,299,073
Marion	1,639,625	2,382,983	2,925,907	2,674,553	3,172,194	2,638,914	2,785,350	3,251,990	3,029,805	3,619,704	3,449,653	3,733,765
Marshall	165,874	253,800	242,176	199,633	201,179	279,276	315,273	390,666	411,031	530,427	3,39,189	273,848
Mason	109,204	108,867	85,367	98,427	113,527	102,282	89,089	77,846	108,429	93,210	103,728	101,802
McDowell	3,183,529	3,516,658	4,142,102	4,219,251	4,734,199	5,249,913	5,524,376	6,810,720	7,806,324	8,423,689	8,515,689	9,445,039
Mercer	1,004,379	1,144,258	1,046,937	1,052,153	1,104,523	1,274,003	1,274,070	1,728,329	2,023,440	2,009,222	1,823,674	2,103,293
Mineal	510,757	554,286	562,667	513,772	532,181	544,582	667,613	505,171	540,147	607,172	692,295	745,658
Mingo	383,290	350,294	436,085	501,410	635,113	848,464	1,153,013	1,375,233	1,719,235	1,867,100	1,714,807	1,617,581
Monongalia	68,867	56,793	82,148	75,589	130,371	184,074	194,540	178,732	193,074	292,366	271,843	235,816
Nicholas					12,190	7,645	25,723	51,523	59,321	57,412	61,806	40,353
Ohio	96,912	119,960	96,610	115,890	148,852	129,888	101,297	91,132	101,108	133,330	113,698	138,327
Preston	169,044	277,173	403,610	434,713	449,528	574,741	689,139	611,122	827,172	1,079,692	874,786	634,353
Putnam	128,881	164,004	203,449	125,321	298,712	178,304	265,914	310,576	465,341	401,413	424,429	378,429
Raleigh	79,315	93,370	68,360	102,089	272,106	244,088	406,226	601,180	825,635	1,104,656	1,250,429	1,737,812
Randolph	31,975	103,297	107,883	265,687	398,487	398,487	556,531	416,834	609,380	545,803	515,803	463,266
Taylor	169,532	249,103	376,030	383,223	415,502	264,424	334,562	252,161	398,545	416,138	424,358	437,633
Tucker	831,497	490,038	1,098,874	958,304	1,011,435	1,078,997	1,037,758	961,293	1,057,808	1,005,219	930,568	1,005,568
Upshur									5,809	39,502	76,776	60,589
Wayne										25,217	35,756	31,619
Westmoreland												
Small Mines	140,000	150,000	150,000	175,000	180,000	180,000	170,000	180,000	180,000	180,000	180,000	180,000
Totals.	14,294,865	16,250,150	18,886,911	20,290,991	23,359,083	22,913,098	26,984,715	31,503,029	37,403,474	40,040,311	39,367,010	41,083,766

ORDER IN THE PRODUCTION OF COAL. 1897-1909.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Fayette	1	1	1	1	1	1	2	1	2	2	2	2	2
McDowell	2	2	2	2	2	2	1	2	1	1	1	1	1
Marion	3	3	3	3	3	3	3	4	3	4	4	4	4
Kanawha	4	4	4	4	4	4	5	3	4	3	3	3	3
Mercer	5	5	5	6	6	6	6	6	6	6	6	6	6
Harrison	9	9	8	7	5	5	4	5	5	5	5	5	5
Tucker	6	6	7	5	7	7	7	8	8	8	10	10	10
Mingo	8	8	9	9	9	8	8	7	7	7	7	7	9
Mineral	7	7	6	8	8	9	11	11	12	13	14	13	11
Preston	13	11	10	10	10	10	9	10	10	9	9	11	13
Taylor	10	10	11	11	11	11	14	16	16	16	17	17	16
Marshall	11	12	12	12	13	16	13	14	14	15	15	18	19
Randolph				14	14	14	12	13	13	12	13	14	14
Barbour	19	19	17	18	12	12	10	9	11	11	11	12	12
Raleigh	16	16	13	19	17	13	15	12	9	10	8	8	8
Barbour	12	13	13	13	15	15	16	15	15	14	18	16	17
Putnam	15	15	14	15	16	17	18	19	21	22	21	21	21
Ohio	17	18	18	20	20	20	23	22	17	17	16	15	15
Brooke	14	14	15	16	18	19	19	20	22	21	22	22	22
Mason													
Grant							22	18	19	19	20	20	20
Logan									20	18	12	9	7
Monongalia	20	17	19	17	19	18	17	17	18	20	19	19	18
Hancock	18	20	20	21	21	21	20	21	24	24	23	25	26
Clay								25	23	23	24	27	30
Nicholas						22	24	24	25	25	25	26	27
Lincoln						23	21	23	27	26	30	30	25
Braxton											26	23	23
Wayne									26	27	29	29	28
Upshur										28	27	24	24
Greenbrier											28	28	29
Lewis											31	31	32
Gilmer											32	32	31
Wyoming												33	34
Boone													33

TABLE SHOWING THE COMPARATIVE STATEMENT OF THE COAL PRODUCTION FOR 1909 AND 1908.

(Tons of 2,240 lbs.)

COUNTY	Coal Production for		Increase of 1906 over 1909	Decrease of 1909 over 1908
	1909	1908		
Brooke	449,647	458,284		8,637
Hancock	46,756	66,511		19,755
Marion	3,733,765	3,440,666	293,099	
Marshall	233,848	369,189		135,341
Ohio	158,327	143,698	14,629	
Harrison	3,005,689	3,168,042		162,353
Lewis	13,780	22,640		8,860
Upshur	60,589	76,773		16,184
Barbour	735,033	829,046		94,013
Monongalia	235,816	271,843		36,027
Preston	654,333	874,786		220,453
Taylor	437,633	396,358	41,275	
Grant	177,406	242,442		65,036
Mineral	745,658	622,295	123,363	
Randolph	463,206	545,803		82,597
Tucker	1,005,873	920,568	85,305	
Braxton	93,024	91,763	1,261	
Gilmer	14,740	6,697	8,043	
Mason	106,802	109,738		2,936
Putnam	378,420	424,424		46,004
Clay	25,797	42,461		16,664
Fayette	7,597,747	6,851,271	746,476	
Kanawha	4,136,213	4,523,739		387,526
Boone	3,451		3,451	
Nicholas	40,556	61,806		21,250
Greenbrier	32,296	36,066		3,770
Raleigh	1,797,812	1,250,420	548,392	
Mercer	2,103,263	1,823,674	279,589	
McDowell	9,415,069	8,515,689	899,380	
Wyoming		652		652
Lincoln	49,954	25,064	24,890	
Logan	1,909,063	1,215,030	694,024	
Mingo	1,617,581	1,714,807		97,226
Wayne	34,619	35,756		1,137
Totals	41,513,766	39,187,010	3,753,177	1,426,421
Small Mines	180,000	180,000		
Grand Total	41,693,766	39,367,010	3,753,177	1,426,421

ORDER IN THE PRODUCTION OF COAL AND COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1909.

COUNTY.	Number of Mines Producing Coal.	Production of Coal. (Tons of 2,240 lbs.)			Production of Coke, (Tons of 2,000 lbs.)			Order in Production.	
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for year.	1st 6 Mos.	2nd 6 Mos.	Total for the year.	Coal.	Coke.
Brooke	6	238,142	211,505	449,647				15	
Hancock	2	27,084	19,082	46,756				26	
Marion	26	1,937,389	1,796,376	3,733,765	28,040	37,173	65,213	4	8
Marshall	6	112,573	121,573	233,848				19	
Ohio	7	73,228	85,000	158,227				21	
Harrison	36	1,633,339	1,352,130	3,005,689				5	11
Lewis	1	6,890	13,780	20,670				32	
Unshur	4	31,571	29,018	60,589				24	
Barbour	15	389,531	345,562	735,033	17,424	9,779	27,203	12	9
Monongalia	8	97,270	138,346	235,816	38,009	78,555	117,554	18	6
Preston	17	321,385	332,498	654,333	84,842	91,073	175,915	13	4
Taylor	10	223,538	214,065	437,633	2,218	3,084	5,302	16	10
Grant	3	96,047	81,359	177,406				20	
Mineral	22	337,065	388,593	745,658				11	
Randolph	7	236,290	226,946	463,206	60,021	80,581	149,602	14	5
Tucker	13	507,510	498,363	1,005,873	58,678	58,262	116,940	10	7
Braxton	2	54,722	38,302	93,024				23	
Glinier	1	1,340	13,400	14,740				31	
Mason	7	60,190	46,003	106,802				22	
Putnam	10	182,809	195,611	378,420				17	
Clay	2	5,089	20,708	25,797				30	
Fayette	139	3,808,257	3,789,490	7,597,747	240,524	273,048	513,572	2	2
Kanawha	109	2,436,884	2,099,329	4,536,213				3	
Boone	4		3,451					27	
Nicholas	5	19,533	21,023	40,556				33	
Greenbrier	1	17,389	14,907	32,296				29	
Raleigh	34	828,550	909,262	1,737,812				8	
Mercer	30	1,031,641	1,041,622	2,103,263	92,027	128,619	220,646	6	3
McDowell	106	4,507,800	4,307,269	9,415,069	792,291	941,238	1,733,529	1	1
Lincoln	3	21,376	28,578	49,954				25	
Logan	23	915,503	903,560	1,809,063				4	
Mingo	32	815,701	801,880	1,617,581				7	
Wayne	1	16,617	18,002	34,619				28	
Totals	706	20,062,774	20,850,992	41,513,766	1,415,039	1,710,412	3,125,451		
Small mines		90,000		180,000					
Grand Totals	706	20,752,774	20,940,992	41,693,766	1,415,039	1,710,412	3,125,451		

COUNTY	Prod. of Coal (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Prod. of Coke (Tons of 2,000 lbs.)			Acres of Coal Worked out.
	1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
Brooke	238,142	211,505	449,647	4,866	10,448		434,333			82.11
Hancock	27,082	19,082	46,164	1,066	1,044		41,046			10.66
Marion	1,967,389	1,736,376	3,703,765	61,377	12,421	99,489	3,560,498	28,040	37,173	398.07
Marshall	112,275	121,573	233,848	1,371	9,716		222,761			35.35
Ohio	73,228	85,089	158,317	821	8,580		98,221			26.50
Harrison	1,653,559	1,352,130	3,005,689	30,088	9,989	416	2,965,246	275		355.48
Lewis	6,890	13,780	20,570	446	446		12,888			2.04
Upshur	31,571	29,018	60,589	1,655	913		58,021			13.62
Barbour	389,531	345,502	735,033	12,329	3,800	40,077	678,227	17,424	9,779	107.25
Monongalia	97,270	138,546	235,816	6,271	1,534		82,586	38,689	78,555	47.04
Preston	321,385	332,038	653,423	21,893	5,688	248,039	378,730	84,842	91,073	141.28
Taylor	223,338	214,095	437,433	3,086	1,670	7,892	424,985	2,218	3,084	5.302
Grant	96,047	171,339	267,386	11,297	911		165,198			26.53
Mineral	357,065	388,383	745,448	2,449	2,085		740,514			106.73
Randolph	236,290	226,946	463,236	7,531	2,279	163,119	290,277	60,021	89,581	50.98
Tucker	507,510	498,363	1,005,873	27,749	6,030	175,740	796,354	58,678	58,262	132.29
Braxton	54,792	38,302	93,094	802	725		91,497			13.97
Gilmer	1,340	13,400	14,740	68	84		14,588			1.81
Mason	60,199	46,063	106,262	2,569	6,363		97,640			15.16
Putnam	182,809	105,611	288,420	3,414	10,192		304,014			57.03
Clay	3,080	20,708	23,788	575	1,800		23,422			6.35
Fayette	3,908,257	3,789,490	7,697,747	136,085	64,900	802,811	6,573,891	240,324	273,048	513.572
Kanawha	2,036,884	2,009,329	4,046,213	63,247	55,714		4,017,252			1,290.22
Boone	3,451	3,451	6,902	205	205		3,246			685.60
Nicholas	19,333	21,023	40,356	1,085	1,627		37,844			9.24
Greenbrier	17,389	32,296	49,685	774	1,627		31,522			6.73
Raleigh	828,550	903,282	1,731,832	43,070	17,786		1,736,956			390.66
Mercer	1,061,041	1,041,022	2,102,063	32,006	15,488	347,546	1,708,225	92,027	128,619	334.11
McDowell	4,507,800	4,907,289	9,415,089	190,438	87,146	2,565,676	6,562,809	792,291	941,238	1,736.71
Lincoln	27,578	28,578	56,156	1,338	2,433		46,163			7.02
Logan	915,503	903,500	1,819,003	15,400	13,279		1,878,384			272.73
Mingo	815,701	801,880	1,617,581	37,906	20,879		1,558,736			244.17
Wayne	16,017	18,002	34,019	567	567		34,052			8.24
Totals	20,082,774	20,850,392	41,513,766	751,985	380,430	4,046,905	35,734,446	1,415,039	1,710,412	3,125,451
Small Mines	30,000	30,000	180,000				180,000			6,608.00
1909 Grand Totals	20,752,774	20,940,392	41,693,766	751,985	380,430	4,046,905	35,734,446	1,415,039	1,710,412	3,125,451
1908 Grand Totals	22,639,394	16,727,616	39,367,010	722,826	608,134	4,520,273	33,514,777	1,837,173	1,141,080	2,978,253
Changes.	† 1,886,620	* 4,213,376	* 2,326,756	* 29,139	† 227,704	* 126,632	* 8,178,989	† 422,134	* 569,322	* 147,188

* Decrease of 1909 under 1908.

* Increase of 1909 over 1908

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)				Production of Coke (Tons of 2,000 lbs.)					
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.		
Brooke County.													
A. Gilchrist & Sons' Co	Gilchrist	4,414	10,797	14,911		4,831		10,050					
La Belle Coal Co	Lewis No. 1	33,308	20,318	53,826		2,707		51,059					
Beech Bottom Coal Co	Beech Bottom	55,275	38,349	93,624		2,205		91,419					
Lewis-Findley Coal Co	Locust Grove	57,406	44,815	102,221	2,726	35		99,490					
La Belle Iron Works	La Belle Shaft	63,719	74,705	140,424	1,606			138,818					
Rex Carbon Coal Co	Rex No. 1	22,320	22,321	44,641	534	580		43,527					
Totals		238,142	211,505	449,647	4,866	10,448		434,333					
Hancock County.													
The Marquet Coal Co	No. 4	22,368	15,558	37,926	1,066	1,044		35,816					
The Marquet Coal Co	No. 5	5,326	3,504	8,830				8,830					
Totals		27,694	19,062	46,756	1,066	1,044		44,646					
Marion County.													
Fairmont Coal Co.	Murray	38,774	20,066	67,840	2,625	170	141	64,904	95		95		
Fairmont Coal Co	Montana	90,194	68,895	159,089	4,042	861	4,653	149,533	3,121	6	3,127		
Fairmont Coal Co	Shaft	106,405	81,297	187,702	6,930	1,074		179,739					
Fairmont Coal Co	New England	102,172	78,521	180,693	1,066		1,550	172,028					
Fairmont Coal Co	Gaston	84,816	64,217	149,033	4,091	516	336	144,090	222		222		
Fairmont Coal Co	Monongah No. 2	71,339	60,501	131,840	2,309	1,646	14,449	113,236	4,231	5,306	9,537		
Fairmont Coal Co	Monongah No. 6	99,060	99,088	198,148	3,857	14	24,532	169,765	137	15,175	15,312		
Fairmont Coal Co	Monongah No. 3	185	29,831	30,016	132			29,884					
Fairmont Coal Co	Monongah No. 8	124,116	103,611	220,727	2,335	22	15,963	211,776	4,830	4,834	9,667		
Fairmont Coal Co	Shaver	97,195	73,295	165,290	300			165,130					
Fairmont Coal Co	Pennols	87,724	92,755	178,479	842	611		176,996					
Fairmont Coal Co	Anderson	57,190	77,027	134,217	1,872	41	41	92,212	97		97		
Fairmont Coal Co	Highland	80,565	72,725	153,290	470	198	487	158,305	308		308		
Fairmont Coal Co	Middleton	76,525	64,352	141,057	1,566	165	745	139,752	360	132	492		
Fairmont Coal Co	Chicfon	90,744	63,919	154,663	1,404	236	147	152,776	97		97		
Fairmont Coal Co	Hutchinson	42,520	35,182	77,702	1,201	434	41	760,006	27		27		
Fairmont Coal Co	Chatham Shaft No. 1	210,808	217,311	428,119	1,800	276	19,219	403,824	4,900	7,912	12,812		
George's Creek Coal & Iron Co.	Stafford	116,316	148,826	265,142	8,747	969		255,395					
New Central Coal Co	Stafford	137,825	129,920	267,745	7,747	1,026		258,898					
Federal Coal & Coke Co	Federal No. 1	104,736	180,391	285,127	800	2,000	18,765	323,392	9,685	3,735	13,480		
The Van & Pitts, C & C Co	Kingsmont	15,295	9,084	24,379	1,244	130		23,005					
Parker Run Coal & Coke Co	Parker Run												

Harry B. Coal Co.	Harry	26,365	29,421	55,726	264	114	55,612		
Kilgarn Coal & Coke Co.	Kilgarn No. 1	7,856	10,130	17,986		127	17,595		
Pittsburg Steam Coal Co.	Elizabeth	9,724	9,993	19,717			19,717		
Calawba Coal Co.	Calawba		1,000	3,408	500	250	3,408		
Dakota Coal & Coke Co.	Dakota		1,000	1,000			250		
Totals		1,937,389	1,796,576	3,733,765	61,377	12,421	3,569,498	28,040	65,213
<i>Marshall County.</i>									
Hitchman Coal & Coke Co.	Hitchman	65,190	66,829	132,019		5,976	126,073		
Boggs Run Mining & M. F. G. Co.	Boggs Run	4,863	2,375	7,238		550	6,500		
Wheeling Steel & Iron Co.	Bonwood	27,556	29,497	57,053			57,053		
Glendale Coal Co.	Glendale	3,613	3,689	7,302		1,785	5,517		
Mound Coal Co.	Shaft Mine	13,283	13,283	26,566			21,429		
Bituminous C. Co. of America	Bituminous No. 1	8,017	5,700	13,717		1,405	6,180		
Totals		112,275	121,573	233,748	1,371	9,716	222,761		
<i>Ohio County.</i>									
Richland Coal Co.	Richland	42,857	46,428	89,285			89,285		
Elm Grove Coal Co.	Elm Grove	1,167	9,026	10,193		544	8,936		
Whitaker-Glessner Co.	Carter	16,110	17,145	33,255			0 33,255		
Reynolds Brewing Co.	Manchester	3,751	3,294	7,045			7,045		
J. S. Creighton	Creighton	2,054	1,192	3,246		3,246			
Peter Storch & Sons	Storch	2,400	2,400	4,800		4,800			
La Belle Iron Works	La Belle	4,889	5,614	10,503		108	10,385		
Totals		73,228	85,099	158,327	821	8,500	148,221		
<i>Harrison County.</i>									
Clarksburg Fuel Co.	Fall Run	25,561	29,193	47,754		129	47,625		
Clarksburg Fuel Co.	Pinnerknick	110,321	84,445	194,766		1,065	192,279		
Clarksburg Fuel Co.	O'Neill	31,894	31,082	62,976		1,350	61,481		
Clarksburg Fuel Co.	Dixie	6,720	4,257	10,977		101	10,876		
Clarksburg Fuel Co.	Two Dick	36,742	28,210	64,952		309	63,635		
Clarksburg Fuel Co.	Interstate	25,653	20,508	46,141		273	44,668		
Clarksburg Fuel Co.	Despard	5,286	6,336	11,622		108	11,385		
Fairmont Coal Co.	Enterprise	101,685	70,436	172,121		1,016	165,943	275	
Fairmont Coal Co.	Virona	36,413	37,389	73,802		201	73,601		
Fairmont Coal Co.	Riverdale	28,840	23,583	50,423		1,037	49,255		
Fairmont Coal Co.	Ehlen	38,211	30,911	69,122		580	67,642		
Fairmont Coal Co.	Solon	28,070	22,188	50,258		66	48,992		
Fairmont Coal Co.	Gypsy	58,444	46,008	104,452		633	100,000		
Fairmont Coal Co.	Meadowbrook	32,076	33,934	66,010		529	64,539		
Fairmont Coal Co.	Globe	17,404	16,134	33,538		301	33,257		
Fairmont Coal Co.	Dunham	30,642	25,637	56,279		106	56,073		
Fairmont Coal Co.	Ocean	37,736	28,385	66,121		165	64,701		
Fairmont Coal Co.	Columbia	63,758	34,296	98,054		278	96,656		

*Used in Brewery.

u Used in mill.

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)				
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quan-tity Shipped from Mine.	1st 5 Mos.	2nd 6 Mos.	Total for the Year.
<i>Harrison County—Con't.</i>											
Fairmont Coal Co.	Robinson Run	14,157	12,026	26,183	20	86		26,077			
Fairmont Coal Co.	Reynoldsville	7,430	3,988	11,417	252	93		11,082			
Fairmont Coal Co.	Lynch	5,491	3,708	9,199		46		9,353			
Fairmont Coal Co.	West Fork	6,352	5,007	11,359	10	42		11,307			
Pittsburg & Fairmont Fuel Co	Perry	49,213	44,944	94,157				94,157			
Pittsburg & Fairmont Fuel Co	Coaling Station	20,145	17,961	38,106				38,106			
Pittsburg & Fairmont Fuel Co	Pooz	27,471	23,440	50,911				49,779			
Pittsburg & Fairmont Fuel Co	Lucas	21,720	18,481	40,201	1,070	62		40,201			
Virginia-Maryland Coal Corp.	Willard No. 1	30,130	57,417	87,547		100		87,447			
Cook Coal & Coke Co.	No. 2 at Girard No. 1	46,015	40,852	86,867	1,404			85,463			
Corona Coal & Coke Co.	Harold	41,964	35,899	78,863		200		78,663			
Central Fairmont Coal Co	Snake Hill	23,993	25,685	52,678		53		52,678			
Vincent Coal Co.	Grasselli	25,123	27,828	52,951				52,958			
Haywood Coal Mining Co	Monroe	8,600	11,200	19,800		649		19,300			
Meadowbrook Coal & Coke Co	Erie	78,295	69,472	138,767	1,754			136,364			
Harrison County Coal Co	Overholt	939	4,870	5,809				5,829			
W. B. Guntion Coal Co	Phoenix		2,700	2,700				2,700			
Lambert Run Coal Co	Clauson	6,355	8,040	14,395				14,395			
Hero Coal & Coke Co	Hero	13,666	10,300	24,066				24,066			
Blue Ridge Coal Co	Thompson	15,000	15,000	30,000				30,000			
Rose-Bud Coal Co	Rosebud	12,253	4,250	16,543	40	75		16,368			
Monroe Colliery Co	Sylvester	26,452	26,796	53,248				53,248			
National Coal Co	National	10,000	12,000	22,000	100	150		21,750			
Fayette Coal Co	Fayette	9,558	11,054	20,612	5	35		20,572			
Short Line Coal Co	Girard No. 2	30,592	29,680	60,142	333	498		59,111			
Fairmont & Baltimore Coal Co	Fairmore	37,439	25,508	62,928				63,228			
Madeira-Hill-Clark Coal Co	Golf	17,817	16,736	34,613				34,613			
Madeira-Hill-Clark Coal Co	Waldo	63,923	57,115	121,038		584		120,454			
Madeira-Hill-Clark Coal Co	New Chieft. & Randolph	49,140	56,374	105,714		280		81,434			
Southwestern Coal Co	Miller No. 1	1,000	5,722	7,322	20	15		7,287			
Washington Fuel Co	Miller Nos. 1 and 2	1,000	1,000	2,000	15	20		1,565			
O'Gara Coal Mining Co	O'Gara	30,824	30,278	61,102		20		50,278			
Pitcairn Coal Co.	Pitcairn	63,070	18,233	81,303	1,416	535		79,352			
Marshall Coal Co	Marshall	57,874	21,500	79,374	1,813	336		77,225			
Cook & Hart Coal Co.	Cook	8,738	6,393	15,131				15,131			
Hutchinson Fuel & Supply Co	Hutchinson	79,834	72,675	152,509				152,509			
Totals		1,653,550	1,352,130	3,005,680	30,088	9,930	416	2,965,246	275		275

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.		Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quant-ity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>Preston County.</i>											
Hile Coal & Coke Co.	Dixie	3,000	1,200	4,200							
Opp Coal & Coke Co.	Vulcan	29,871	19,122	48,993	508	152	10,256		1,944	4,907	6,851
Manufacturers Coal & Coke Co.	Victoria No. 2	8,278		8,278	690				25,430	1,759	27,198
Elkins Coal & Coke Co.	Bretz or No. 2	46,905	4,898	51,803	6,067	215	36,900				
Elkins Coal & Coke Co.	No. 4	46,012	46,965	92,977	1,425	185			7,851	23,304	31,155
Elkins Coal & Coke Co.	No. 6	22,988	38,550	61,538	3,148	389	47,137		20,711	32,206	52,917
Preston County Coke Co.	Cascade	28,768	42,775	71,543	789	500	70,254				
Totals		321,335	332,468	654,333	21,806	5,088	248,039		81,842	91,073	175,915
<i>Taylor County.</i>											
Grafton Coal & Coke Co.	Sand Lick	35,000	40,000	75,000							
Philpsvoin Coal Co.	Flemington.	17,698	16,283	33,981							
T. B. Davis	T. B. Davis	16,691	10,844	27,535							
McGraw Coal Co.	New York	14,788	25,329	40,117	702	231					
Rosemont Coal Co.	Rosemont	16,035	76,653	100,240	332	368					
Maryland Coal Co.	Wendell T. 2, 3, 4 & 5	83,987	23,771	58,989	1,440	265					
Winona Coal & Coke Co.	No. 1	35,218	5,355	10,225	5,465	133	7,892		2,218	3,084	5,302
Winona Coal & Coke Co.	No. 2	4,870									
Johnson Bros. Coal Co.	Cecil	4,512	891	5,406	66						
Harrison Coal Co.	Harrison	11,174	14,308	25,482							
Totals		223,538	214,065	437,653	5,086	1,070	7,892		2,218	3,084	5,302
<i>Grant County.</i>											
Davis Coal & Coke Co.	Henry No. 22	90,665	74,330	164,995	11,134	724					
Buffalo Cr & Cumberland C. Co.	Buffalo Creek	4,024	6,920	11,544	143	187					
Cottage Street Coal Co.	Cottage Street	758	105	863	20						
Totals		96,047	81,350	177,406	11,297	911					
<i>Mineral County.</i>											
Davis Coal & Coke Co.	No. 6	34,687	31,090	65,777							
Davis Coal & Coke Co.	No. 9	113,789	100,361	214,150	180	920					
Davis Coal & Coke Co.	Tyson No. 10	31,398	29,579	60,977		581					
Davis Coal & Coke Co.	Kittanning No. 14	32,098	35,220	67,317		34					
Davis Coal & Coke Co.	Kittanning No. 15	5,027	6,564	11,591		247					
Davis Coal & Coke Co.	Old No. 20	18,323	20,491	38,814		52					
Totals		245,322	233,305	478,627							

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)						
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.		
<i>Gilmer County.</i>													
Cosmopolitan Coal & Coke Co.	Gilmer	1,340	13,400	14,740	68	84		14,588					
Totals		1,340	13,400	14,740	68	84		14,588					
<i>Mason County.</i>													
Mason City Coal Mining Co.	Klondike and Linden	28,255	19,256	47,492				46,204					
Consumers' Coal & Mining Co.	Camden	4,282	2,518	6,800	856	4,686		1,428					
Beech Grove Coal Co.	Beech Grove	6,726	1,558	8,284		80		8,195					
The Liverpool Salt & Coal Co.	Jackson	9,053	6,684	15,737				15,717					
Hartford Coal & Mining Co.	Hartford	10,000	15,089	25,089	1,606	244		23,239					
Dixie Coal Works	Dixie	1,793	1,457	3,250	107	986		2,857					
Totals		60,199	46,003	106,202	2,569	6,503		97,040					
<i>Putnam County.</i>													
Plymouth Coal & Mining Co.	Plymouth	1,858	2,028	4,486				4,486					
Plymouth Coal & Mining Co.	Manilla	26,443	27,865	54,308	1,572	1,070		51,665					
Plymouth Coal & Mining Co.	California	27,557	28,357	56,515	1,572	1,070		53,873					
Alpha Coal Mining Co.	Alpha	893	893	1,786	72			1,714					
The Otto Marmet C. & Min. Co.	Big Otto Nos. 1, 2 & 3	70,312	79,140	149,452		1,317		148,135					
Black Betsy Coal & Mining Co.	Nos. 1 and 2	53,092	53,791	106,883		7,142		99,741					
Oak Forest Coal & Mining Co.	Oak Forest	2,433	2,357	4,390	197	283		4,400					
Totals		182,800	195,611	378,420	3,414	10,992		364,014					
<i>Clay County.</i>													
Elk River Coal & Lumber Co.	Dunbar	2,857	18,476	21,333	555	1,800		18,958					
Carter Coal Co.	Carter	2,352	2,352	4,464				4,464					
Totals		5,089	20,708	25,797	555	1,800		23,422					
<i>Fayette County.</i>													
Sunday Creek Co.	No. 111	98,404	65,823	164,227	2,406	1,094	61,306	98,261	22,057	18,950	41,007		
Sunday Creek Co.	No. 112	98,703	55,635	174,398	4,539	1,562	102,625	65,972	33,414	23,206	56,080		
Sunday Creek Co.	No. 114	68,998	29,975	98,973	4,223	1,345		93,405					
Sunday Creek Co.	No. 115	112,355	80,045	192,400		982	77,283	113,048	31,171	24,271	55,442		
The Columbus Iron & Steel Co.	No. 1	50,492	54,348	104,840	1,686	705	49,705	52,714	14,314	17,368	31,682		

Kanawha Gas		19,107	16,340	35,447	579	34,868
Tea-2-2e		3,462	1,785	5,447		5,447
W. R. Johnson & Co		29,320	20,531	42,851		40,712
Oakland		27,250	28,650	55,910	262	55,708
Boomer Coal & Coke Co		17,811	95,739	213,570	296	213,078
No. 1, North		103,762	87,832	191,594	1,072	181,410
No. 2, South		122,910	20,800	162,863	419	162,300
No. 3		21,670	15,005	36,675	150	35,865
Hickory Camp		2,542	100	2,642		2,597
Eureka No. 13		25,811	5,456	31,267	342	30,250
Eureka No. 14		5,520	4,769	10,289		10,030
Engle No. 1		6,761	7,211	13,972	848	12,974
W. R. Johnson		3,380	3,607	6,987		6,987
No. 6		26,490	29,615	47,105		46,627
Mecca Coal & Coke Co		29,196	22,156	41,352		40,370
Mecca Coal & Coke Co		20,401	20,000	40,401	446	40,000
The Carver Brothers Co		10,295	7,612	17,808		17,808
The Carver Brothers Co		29,085	24,337	54,022		53,202
No. 5 Split			3,043	3,043		3,043
Diamond		6,187	12,777	18,964		18,484
Engle		18,772	31,210	49,982	240	49,091
Columbia No. 5		6,589	25,561	32,150	534	31,551
Elk Ridge No. 1		28,109	26,854	54,963		54,561
Elk Ridge No. 2					2,464	11,454
Valcum						
Brewster, Edwards & Digby		21,522	21,522	43,044		42,542
Ansted & Eagle		83,499	119,519	203,018	1,026	201,992
Herberton		31,093	46,629	77,622	823	76,800
Port Defiance		29,710	28,056	57,766	1,250	56,516
Lynchburg		51,820	41,201	93,021	44	92,977
No. 5 Split		48,765	41,013	89,778	268	89,510
No. 2 Gas		14,288	4,910	19,198	446	18,752
No. 2 Gas		15,350	5,327	20,677		20,075
Mill Creek		5,852	9,763	15,615	423	15,192
Nova Scotia & Turkey Creek		36,900	58,651	95,551		94,953
Gaymont		1,571	3,988	5,559	625	5,034
Summerside		8,492	8,818	17,310		16,818
Elmo		6,105	5,928	12,033		11,531
Michigan		14,638	14,678	29,316		28,814
Newlyn		21,055	16,539	37,624	455	37,169
Payette		7,200	8,400	15,600		15,200
Brown		34,515	35,355	70,050	390	69,660
Nuttallburg and Keeney's Creek		20,348	22,417	42,765	1,607	41,158
Keeney		10,000	10,000	20,000	700	19,300
Smokeless		37,000	43,000	80,000	1,400	78,600
Boone		20,000	20,000	40,000	1,800	38,200
Ballinger No. 1		28,065	27,374	55,439	600	54,839
Ballinger No. 2		2,435	2,694	5,129	886	4,243

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)						
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.		
Fayette County—Cont.													
Rothwell Coal Co.	Dubree	15,200	14,650	29,858	300	200		29,368					
Rhine Coal & Coke Co.	Rhine	33,024	34,182	67,206	900	1,787		64,519					
Lookout Coal & Coke Co.	Lookout	8,213	13,447	21,660	600	900		20,160					
Moseley & Walker	No. 1	3,468	6,000	11,468	600	700		10,168					
Moseley & Walker	No. 2	3,645	3,991	7,639	540			7,699					
Fire Creek & Buffalo	No. 3	27,350	30,800	58,150				58,150					
Beary Bros' Coal & Coke Co.	Fire Creek & Buffalo	14,420	17,780	32,200	1,000	500	13,000	17,700					
Big Bend Coal & Coke Co.	Echo	26,600	18,416	45,016	500	460		44,196					
Stone Cliff Coal & Coke Co.	Big Bend	4,726	5,147	9,873	100	200		9,483					
Beerwood Coal & Coke Co.	Stone Cliff	28,736	32,738	61,474				61,474					
Beerwood Coal & Coke Co.	No. 1	29,435	24,084	54,119				54,119					
Alaska Coal & Coke Co.	No. 2	15,162	14,425	29,587				29,587					
Epbraim Creek Coal & Coke Co.	Alaska	12,570	11,884	24,453	240	276		23,947					
Ridgeview Coal Co.	Buffalo	73,504	67,352	140,916	2,301	1,401		143,124					
Export Coal Co.	Ridgeview	12,163	10,701	22,864	350	250		22,264					
Laurel Creek Coal Co.	Export	8,523	14,496	23,019		326		22,693					
Glendale Colliery Co.	Laurel	16,028	18,947	34,975	320	1,150		27,229					
Greenwood Coal Co.	Glendale	16,436	17,176	33,613	643	805		32,551					
Hemlock Hollow C. & C. Co.	Big Q	31,262	32,189	63,451	500	600		62,351					
N. Riv. & Pocahont's Cons. C. Co.	Greenwood	41,540	43,946	85,486	656			84,820					
N. Riv. & Pocahont's Cons. C. Co.	Hemlock	100,570	113,870	214,440	3,600	1,600		200,180					
N. Riv. & Pocahont's Cons. C. Co.	Layland	9,137	12,890	21,957				21,957					
N. Riv. & Pocahont's Cons. C. Co.	Minden No. 1	50,058	62,503	112,561	3,155	193		109,213					
N. Riv. & Pocahont's Cons. C. Co.	Minden No. 2	43,210	49,900	93,110		261		92,858					
N. Riv. & Pocahont's Cons. C. Co.	Minden No. 3	36,715	46,784	83,499		1,488		82,011					
N. Riv. & Pocahont's Cons. C. Co.	Minden No. 4	41,853	47,724	89,557		1,118		88,439					
New River Valley Coal Co.	Minden No. 5	3,082	3,485	6,567	120	72		6,375					
Marrs Branch Coal Co.	Bachman	3,489	2,546	6,035	120	60		5,855					
The Low Moor Iron Co. of Va.	Whitney	64,263	73,104	137,367	3,600	1,100	72,000	60,067	22,000	26,000	48,000		
The Low Moor Iron Co. of Va.	Kaymoor No. 1	21,301	24,787	46,088	700	1,500		43,888					
Elverton Coal & Coke Co.	Kaymoor No. 2	14,000	14,000	28,000	1,800	450		25,750					
South Side Coal Co.	Elverton	26,817	26,909	53,726	455	600		52,611					
The Thurmond Coal Co.	South Side	24,116	37,397	61,513		900		50,213					
The Thurmond Coal Co.	Thurmond No. 1	12,445	12,005	24,450	1,700	200		24,250					
New River Collieries Co.	Thurmond No. 2	43,755	37,151	80,906		360		54,132	6,807	10,803	17,610		
New River Collieries Co.	Brooklyn	28,583	29,559	58,122		345	26,414	57,377					
New River Collieries Co.	Red Ash												

		40,200	57,000	97,200	4,850	401	59,900	32,049	18,500	19,800	38,300
New River Collieries Co	Rush Run	51,300	61,258	112,558	6,000	1,200	34,600	105,358			
New River Collieries Co	Sun No. 1	37,479	46,100	108,554				74,354		20,200	20,800
New River Collieries Co	Sun No. 2	37,479	46,100	108,554				74,354	600		
The Dungen Coal Co.	Dungen Nos. 1 & 2	18,577	23,286	74,022				41,703			
Newlyn Coal Co.	Newlyn	8,212	7,673	15,885	100	100		15,885			
Meadow Fork Coal Co.	Meadow Fork	16,528	13,170	29,698	200	200		29,898			
The Star Coal & Coke Co	Star	65,167	27,541	110,393	2,746	1,110		106,537			
Laura Mining Co.	Laura	42,500	46,100	88,600	1,000	420		89,600			
Nichol Colliery Co.	Nichol	38,604	38,004	76,604	1,200	250		77,804			
McKell Coal & Coke Co	Perrydale	137,716	144,367	282,143	7,324	2,076		279,543			
Harvey Coal & Coke Co	Kalsyth	53,385	55,170	110,555	3,150	1,200		113,705			
Prudence Coal Co.	Prin. Lyman & Jones	51,127	63,241	114,368	2,495	561		116,863			
Collins Colliery Co.	Collins Nos. 1 & 2	76,520	88,636	165,216	7,200	1,200		172,416			
White Oak Fuel Co.	Wingrove	44,278	44,278	88,556	6,000	1,128		94,556			
White Oak Fuel Co.	Seabro	46,000	44,941	90,941	88,556	1,035		84,025			
White Oak Fuel Co.	Whipple	41,000	41,000	82,000	5,445	872		87,445			
White Oak Fuel Co.	Carlisle	46,818	46,818	93,636	6,536	1,021		86,250			
White Oak Fuel Co.	Oakwood	40,683	36,611	77,294	5,200	825		70,494			
Stuart Colliery Co.	Parral	18,189	28,230	46,419	5,163	933		51,582			
Stuart Colliery Co.	Beech Creek	7,239	3,381	10,620	126			12,504			
Stuart Colliery Co.	Stuart	14,031	29,912	44,009	8,143	820		52,152			
Dun Loop Coal & Coke Co	Dun Loop No. 1	17,435	17,435	34,870	940	50		35,810			
Dun Loop Coal & Coke Co	Dun Loop Nos. 2 & 3	50,477	67,355	117,832	4,538			122,370			
Macdonald Colliery Co	Macdonald	48,811	48,811	97,622	2,078	1,011		100,693			
Sugar Creek Coal & Coke Co	Sugar Creek Nos. 1, 2 & 3	46,130	53,808	99,938	2,078	1,275		102,016			
Price Hill Fuel Co.	Sherwood	20,077	20,078	40,155	3,318			43,473			
Turkey Knob Coal Co.	Turkey Knob	52,417	57,623	110,040				109,663			
Mr. Hope Coal & Coke Co	Baby	473	298	771		741		1,019			
Totals		3,808,257	3,780,490	7,588,747	150,085	64,960	802,811	6,573,891	240,524	273,048	513,572
<i>Kanawha County.</i>											
Falling Rock Cannon Coal Co.	Jones No. 2	4,742	2,892	7,634	357	68		7,991			
Queen Shoals Coal Co.	Queen Shoals	10,500	11,822	22,322	268	214		21,840			
Queen Coal & Coke Co.	Turner		3,707	7,414	122	19		7,536			
The Elk Coal Co.	Turner	9,688	2,890	12,578	705	133		13,283			
Pen Mar Mining Co.	Pen Mar	4,000	4,545	8,545				8,545			
The Clay Coal Co.	Bradley White Ash	7,604	9,486	17,090	126	134		17,216			
Mill Creek Camel Coal Co.	Mill Creek	5,517	5,517	11,034	802	520		11,836			
Blue Creek Coal & Land Co.	Wills Hollow No. 1	3,579		3,579				3,579			
Blue Creek Coal & Land Co.	Wills Hollow No. 2	3,752		3,752				3,752			
Blue Creek Coal & Land Co.	Blakeley No. 3	12,057		12,057				12,057			
Roderick Coal Co.	Roderick	3,314	1,863	5,177	134	102		5,311			
Acme Steam Coal Co.	Acme	1,286	1,444	2,730				2,730			
Williams Coal Co.	Williams	3,341	3,571	6,912		36		6,948			
The Campbells Creek Coal Co	No. 1	85,401	124,680	210,081	3,978	6,116		199,987			
Quincy Coal Co., Inc.	No. 1	6,638	1,739	8,377				8,377			
Quincy Coal Co., Inc.	No. 2	13,154	15,431	28,585	1,515	874		26,190			

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 lbs.)		Production of Coke (Tons of 2,000 lbs.)						
		1st 6 Mos.	2nd 6 Mos.		Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.		
<i>Kanawha County—Cont.</i>													
Sunday Creek Co	No. 101	35,497	37,530	73,027		955	1,282			70,890			
Sunday Creek Co	No. 104	26,017	21,490	47,507		1,335	625			45,546			
Sunday Creek Co	No. 105	80,475	34,122	123,597		3,003	2,995			117,508			
Sunday Creek Co	No. 109	36,884	14,455	51,339		128	1,431			49,780			
The New Cedar Grove Coal & Brick Co.	Boyd	9,300	4,303	13,603		428	263			12,912			
Kellys Creek Colliery Co	No. 1	43,026	6,849	49,875		212	158			49,405			
Kellys Creek Colliery Co	Nos. 3 & 4	71,326	65,093	137,129		2,784	1,745			132,600			
Hugheson Coal Co	Hugheson Nos. 2 & 3	41,300	45,705	87,005		1,115	1,019			84,831			
Cannelton Coal Co	Cannelton No. 2	40,243	57,763	98,006		1,219	1,435			95,272			
The Marmet Coal Co	Monarch	23,635	46,655	70,290		2,455	704			67,101			
The Marmet Coal Co	Butler	2,246	16,244	18,490		425	333			15,436			
The Marmet Coal Co	Butler No. 2	9,365	13,195	22,560		694	612			21,224			
The Marmet Coal Co	Butler No. 5	3,861	5,527	9,388		289	254			8,845			
Oilcott Coal & Iron Co	Oilcott No. 1	20,737	15,051	35,788		1,072	446			34,270			
Oilcott Coal & Iron Co	Oilcott No. 2	21,380	1,801	23,181		714	357			22,110			
Frank Ellison	Peerless	8,495	6,074	14,569		49	231			14,289			
Winfrede Coal Co	South	21,809	43,618	65,427		357	1,071			43,100			
Winfrede Coal Co	North Pick & Machine	17,925	17,925	35,850		1,116	1,071			33,663			
Winfrede Coal Co	West	5,376	5,374	10,750		286	214			10,250			
Winfrede Coal Co	New Coalburg	6,585	28,265	34,740			848			33,928			
Dry Branch Coal Co	Gas	8,934	4,561	13,495		334	196			12,597			
Dry Branch Coal Co	Coalburg	16,078	8,035	24,113		534	196			16,239			
Dry Branch Coal Co	Belmont	17,857	23,935	41,792		534	196			23,205			
Coalburg Colliery Co	Ronda	17,481	34,839	52,370		145	6,380			28,334			
Wyatt Coal Co	Oakley	21,071	22,657	43,728		910	433			42,395			
Wyatt Coal Co	Berlin	25,942	39,811	65,753		1,070	428			61,255			
Wyatt Coal Co	South	23,979	35,105	60,084			492			50,592			
Chelan Fuel Co	Coaling Station		714	714						*			
Persinger Coal Co	Wilton	1,824	1,820	3,640		61	60			3,529			
Lamont Mining Co	Lamont No. 1	4,200	3,857	8,057		675				7,382			
Lamont Mining Co	Lamont No. 3	26,553	21,839	48,392			101			48,291			
Holley & Stephenson C. & C. Co	Stephenson No. 2	23,017	29,017	52,034						58,034			
Holley & Stephenson C. & C. Co	No. 5	30,000	30,000	60,000						60,000			
Wake Forest Mining Co	Wake Forest	18,797	25,991	44,788		691	331			43,473			
Carbon Coal Co	North	28,786	54,175	82,961			400			53,475			
Carbon Coal Co	South	17,221	21,515	38,736		3,000				35,436			

*Used for C. & O. Engines.

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)				Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>Kanawha County—Con't.</i>											
Montgomery Coal Co.	Upper Creek & Hick. Nut	21,621	14,912	36,533	358	2,678		33,327			
Morris Creek Colliery Co.	Morris Creek		5,546	5,546	179	700		5,267			
Totals		2,036,884	2,009,329	4,136,213	63,247	55,714		4,077,252			
<i>Boone County.</i>											
The Coal River Co.	OTTAWA		2,915	2,915		205		2,710			
The Spruce River Coal Co.	Ramage Nos. 1, 2 & 3		536	536				536			
Totals			3,451	3,451		205		3,246			
<i>Nicholas County.</i>											
Kentucky Coal & Lumber Co.	Mt. Carmel	661	3,089	3,750	209	311		3,220			
Armistead Coal Co.	Armistead	5,804		5,804	27	16		5,761			
Raven Collieries	Raven	8,502	5,019	13,611	621	249		12,738			
Pardoe & Curlin Lumber Co.	Panther Creek	2,086	1,828	3,924	7	552		3,365			
Saxman Coal & Coke Co.	Saxman	2,380	11,087	13,467	218	499		12,730			
Totals		19,533	21,023	40,556	1,085	1,627		37,844			
<i>Greenbrier County.</i>											
Elk Lick Coal Co.	Lost Flat	17,389	14,907	32,296	774			31,522			
Totals		17,389	14,907	32,296	774			31,522			
<i>Raleigh County.</i>											
Big Coal Co.	Dorothy	92,384	73,928	166,312	867	549		164,896			
The New River Collieries Co.	Royal	9,355	2,992	12,347	600	400		11,347			
The New River Collieries Co.	Lamarck No. 3	9,330	9,600	18,930	1,550	300		17,280			
The New River Collieries Co.	Lamarck No. 4	27,997	28,831	56,828				56,828			
The New River Collieries Co.	Reeles No. 11	9,469	15,793	25,265	5,132	451		19,682			
McKell Coal & Coke Co.	Oswald	34,507	37,573	72,080		400		71,540			
McKell Coal & Coke Co.	Graham	27,141	33,871	61,012	60	400		60,552			
McKell Coal & Coke Co.	Tanroy	7,849	12,900	20,800	480	120		20,200			
Wright Coal & Coke Co.	Wright No. 1	23,365	26,406	50,001	552	144		49,365			
Wright Coal & Coke Co.	Wright No. 2	19,102	24,096	43,198	232	100		42,846			
Stonewall Coal & Coke Co.	Terry	23,862	33,014	56,846	600	575		55,671			
Stonewall Coal & Coke Co.	Stonewall No. 3	21,409	24,287	45,386	600	600		44,196			

Stonewall No. 4									
Piney Mining Co.	6,000	1,200	7,200	2,142	2,142	7,188			
Piney Mining Co.	23,126	34,087	57,213	2,142	2,142				
Piney Mining Co.	18,325	19,100	37,425		1,428	55,907			
Piney Mining Co.	17,750	25,784	43,534	356	1,070	42,108			
Piney Mining Co.	22,900	30,274	53,174		356	52,818			
Raleigh Nos. 1, 2 & 4	44,889	48,083	92,972	5,000	820	87,088			
Raleigh Coal & Coke Co.	70,700	69,083	139,783			139,782			
Raleigh Coal & Coke Co.	19,065	17,450	36,515	300		36,215			
Raleigh Coal & Coke Co.	40,006	58,716	98,722			98,722			
Blue Jay Lumber Co.	1,000	15,000	16,000		1,000	15,000			
Sullivan Coal & Coke Co.		14,149	14,149	400		13,749			
Cranberry Fuel Co.	36,950	47,903	84,853	2,323		82,530			
Cranberry Fuel Co.	21,661	3,610	25,271	3,163		22,108			
Cranberry Fuel Co.	20,908	41,734	62,642	7,173		55,469			
Cranberry Fuel Co.	20,287	23,331	43,618	4,432		39,186			
Malbeco Coal & Coke Co.	31,000	33,075	64,075			63,520			
Beckley Coal & Coke Co.	39,063	44,469	83,532	2,720		80,812			
Price Hill Fuel Co.	27,776	27,776	55,552	3,659		51,893			
Slab Fork Coal Co.	31,685	61,044	92,729	647		92,082			
Nos. 1 & 2 Shaft	10,000	10,000	20,000	250		19,750			
Totals	828,550	900,262	1,728,812	43,070	17,786	1,746,598			
Mercer County									
Mill Creek Coal & Coke Co.	94,703	83,779	178,482	615	813	177,669	1,075	8,512	9,587
Mill Creek Coal & Coke Co.	90,087	70,610	160,697	536	670	159,927	15,546	16,546	32,092
Buckeye Coal & Coke Co.	50,000	55,912	105,912	544	300	105,612	8,161	10,227	18,088
Booth-Bowen Coal & Coke Co.	67,297	63,355	130,652	1,800	933	128,719	8,183	11,758	19,941
Pocaahontas Consolidated Collieries Co., Inc.	82,190	78,700	160,890	6,000	5,000	155,890	1,240	7,310	8,550
Louisville Coal & Coke Co.	81,124	100,450	181,574	2,488	1,228	179,836	8,403	12,572	20,975
Cephus Coal Co.	5,800	13,393	19,193	89	258	18,835	13,036		
Crystal Coal & Coke Co.	52,530	67,718	119,278	540	272	118,706	7,918	18,562	26,480
American Coal Co. of Allegheny Co.	113,978	112,803	226,781	2,890	1,205	225,576	24,625	22,704	47,329
American Coal Co. of Allegheny Co.	91,145	93,767	184,912	6,394	954	177,654			
American Coal Co. of Allegheny Co.	24,043	35,808	59,851	1,647	471	58,104	16,816	20,328	37,144
The Thomas Coal Co.	65,200	60,840	126,040	3,600	360	122,440			
Pawama Coal & Coke Co.	39,636	28,072	67,708	382		67,326			
The Weyanoke Coal & Coke Co.	28,809	38,831	67,640	2,678	1,070	65,962			
The Weyanoke Coal & Coke Co.	12,877	9,427	22,304			22,304			
The Smokeless Coal & Coke Co.	14,525	12,475	27,000		200	26,800			
Hiawatha Coal & Coke Co.	34,845	35,960	70,805		400	70,405			
Spring Coal Mining Co.	60,220	73,193	133,413	1,000	600	132,813			
Weyanoh Coal & Coke Co.	24,700	13,423	38,123	500	300	37,823			
T. D. Lee	2,116	1,225	3,341			3,341			
Totals	1,061,641	1,041,622	2,103,263	32,006	15,186	2,118,449	92,027	128,619	220,646

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 pounds.)			Production of Coke (Tons of 2,000 lbs.)						
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.		
McDowell County.													
Alcona Coal & Coke Co	Piney & North Fork	74,486	78,771	153,257	1,770	1,140	33,080	114,477	9,665	13,114	22,780		
Elk Ridge Coal & Coke Co	Elk Ridge	49,694	58,090	107,784	2,970	925	35,849	67,440	7,120	13,255	22,405		
Griffith Coal & Coke Co.	Griffith	68,414	77,225	145,639	1,050		35,653	107,946	10,030	12,878	22,908		
Indian Ridge Coal & Coke Co	Indian Ridge	57,625	58,557	116,182	618	200	31,910	83,474	9,132	12,529	21,661		
Roanoke Coal & Coke Co	Roanoke	48,704	50,008	98,672	1,000	750	34,715	63,200	13,571	12,188	25,759		
Arlington Coal & Coke Co	Arlington	50,311	67,333	117,644	822		30,171	83,021	8,664	10,617	19,281		
Greenbrier Coal & Coke Co	Greenbrier	85,337	75,731	161,068	2,735	1,179	35,466	121,630	10,619	13,017	23,645		
McDowell Coal & Coke Co	McDowell	120,820	111,405	232,225	3,200	1,744	29,345	201,117	9,410	12,815	21,925		
Ashtland Coal & Coke Co	Ashtland and Monitor	92,174	100,801	192,975	3,200	350	15,451	173,974	373	9,928	10,301		
Pocahontas Cons. Coll. Co., Inc	Cherokee	42,730	42,630	85,360	6,000	5,000		70,420	8,710		8,710		
Pocahontas Cons. Coll. Co., Inc	Lick Branch	85,360	17,100	102,460	4,000	5,000	13,940	79,520	7,650		7,650		
Pocahontas Cons. Coll. Co., Inc	Delta	81,900	89,860	171,760	24,000	4,000	12,240	134,580	3,200	31,970	35,230		
Pocahontas Cons. Coll. Co., Inc	Shamokin	77,220	117,350	194,570	5,000	5,000	56,570	128,800	3,200	31,970	35,230		
Pocahontas Cons. Coll. Co., Inc	Norfolk & Angle	130,460	185,340	315,800	7,000	6,000	160,630	172,170	52,080	60,360	112,440		
Pocahontas Cons. Coll. Co., Inc	West	16,000	20,000	36,000				36,000					
Zenith Coal & Coke Co	Nos. 1 & 2	22,601	40,073	62,674	2,305	211		99,164					
Elkhorn Coal & Coke Co	Elkhorn	104,907	94,848	199,755	1,495	1,495	39,415	157,043	11,378	17,795	29,174		
Mohawk Coal & Coke Co	Mohawk	29,426	15,065	44,491	3,150	720		41,761					
New River & Pocahontas Consolidated Coal Co	Nos. 1, 2 & 3	128,443	130,902	259,345	5,730	1,900	72,723	178,902	21,212	27,276	48,488		
Dry Fork Min. & Investm't Co	War Creek	8,762	3,000	11,762	265	200		11,297					
Hall Mining Co	Hall No. 1	43,274	21,147	64,421	525	250		63,646					
Pocahontas Domestic Coal Co	Domestic		1,407	1,407				1,407					
War Creek Coal Co	No. 2		4,092	4,092				4,092					
Dry Fork Colliery Co	Dry Fork	1,492	11,000	12,492	600	20		11,872					
Reynolds Mining Co	Reynolds		1,700	1,700				1,690					
Virginia-Pocahontas Coal Co	Nos. 1 & 1 1/2	27,292	18,480	45,772		352		44,373					
Virginia-Pocahontas Coal Co	No. 2 East & West	18,434	12,290	30,724				30,724					
Virginia-Pocahontas Coal Co	Nos. 3 & 4	28,584	19,057	47,641				47,641					
Virginia-Pocahontas Coal Co	No. 5	11,840	17,919	29,759				29,243					
Vaughan Coal & Coke Co	Vaughan	6,723	2,663	9,386	1,338	178		7,920					
Premier-Pocahontas Coll's. Co	Nos. 1, 2 & 3	37,145	37,146	74,291	57	1,469		7,469					
Big Sandy Coal Co	Big Sandy	45,181	46,389	91,570	400	300		36,446					
Big Sandy Coal Co	Marytown	68,018	65,141	133,159	673	827		90,050					
Twin Branch Mining Co	Twin Branch	39,254	33,267	72,521	1,197	719		132,143					
Maher Coal & Coke Co	Maher Nos. 1 & 2	23,945	20,846	44,791	1,200	1,250		70,072					
J. B. B. Collieries Co	J. B. B. No. 1	17,000	9,089	26,089	2,410	1,261		41,120					
						879		25,870					

PRODUCTION OF COAL, AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)		
		1st 6 Mos.	2nd 6 Mos.		Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.
<i>McDowell County—Cont.</i>	Turkey Gap	191,835	177,912	369,747			119,275	250,472		68,157
	Flat Top	.....	4,623	4,623	400	100	.....	4,123	.....	.....
	Hurricane	3,600	3,800	7,400	250	125	.....	7,025	.....	.....
	Henrietta	5,000	12,000	17,000	230	80	.....	16,651	.....	.....
	Totals	4,507,800	4,907,200	9,415,000	190,438	87,146	2,565,676	6,562,800	792,291	1,733,529
<i>Lincola County.</i>	Branchland	19,282	22,006	41,288	1,338	310	.....	39,640	.....	.....
	Kenova	1,737	4,786	6,523	.....	.....	.....	6,523	.....	.....
	Coalging Station	357	1,786	2,143	.....	0	2,143	.....	.....	.....
	Totals	21,376	28,578	49,954	1,338	2,453	.....	46,136	.....	.....
	<i>Logan County.</i>	Nos. 1, 2 & 3	14,083	20,717	35,400
Big Creek		9,821	8,928	18,749	365	400	.....	34,635	.....	.....
Johnson		431	10,330	10,770	200	312	.....	18,257	.....	.....
Draper		41,837	34,170	76,007	.....	219	.....	76,007	.....	.....
Wilson		27,300	30,329	57,629	1,200	.....	.....	56,429	.....	.....
Fort Branch		16,071	11,607	27,678	.....	566	.....	27,112	.....	.....
Price		22,634	45,268	39,117	358	.....	.....	44,642	.....	.....
Rex		13,532	25,585	39,117	574	119	.....	38,424	.....	.....
Logan		22,675	51,322	51,322	.....	.....	.....	51,322	.....	.....
Ethel		24,329	17,562	41,891	1,218	326	.....	40,347	.....	.....
Monitor		65,611	62,600	128,211	428	273	.....	127,510	.....	.....
Beechwood		30,172	29,558	59,730	.....	.....	.....	59,730	.....	.....
Yuma		20,250	24,269	53,528	.....	378	.....	53,150	.....	.....
Gay		41,850	30,964	84,823	818	536	.....	83,449	.....	.....
Cora		24,925	33,830	58,655	.....	1,006	.....	56,449	.....	.....
Island Creek No. 1		106,004	181,987	347,491	.....	1,695	.....	351,502	.....	.....
Island Creek No. 2		193,717	198,471	382,188	10,229	6,250	.....	389,531	.....	.....
Island Creek No. 3		49,317	72,903	122,220	.....	2,657	.....	121,312	.....	.....
Island Creek No. 4		44,557	53,190	97,747	.....	908	.....	97,449	.....	.....
Nos. 5 & 6		74,469	86,270	160,739	.....	176	.....	160,563	.....	.....
Totals		915,503	993,560	1,909,063	15,400	15,279	.....	1,878,384	.....	.....

O—Used for N. & W. Engines.

*PRODUCTION OF COAL IN WEST VIRGINIA, BY GEOGRAPHICAL DISTRICTS
FOR THE YEAR ENDING JUNE 30th, 1905.*

(Tons of 2,240 lbs.)

Potomac District	1,928,937
Monongahela District	9,326,064
Wheeling District	888,578
Interior District	153,840
Kanawha-New River District	14,128,086
Norfolk & Western District.....	15,088,261
Total Commercial Mines	41,513,766
Small Mines	180,000
Grand Total	41,693,766

POTOMAC DISTRICT

(Counties of Grant, Mineral and Tucker.)

Davis Coal & Coke Company (1 in Grant, 9 in Mineral and 8 in Tucker)	1,614,146
Cumberland Coal Company.....	133,460
Gleason Coal & Coke Company.....	42,000
Abrams Creek Coal & Coke Company.....	31,327
Masteller Coal Company.....	30,134
Smith Coal Company	26,283
Buffalo Creek Cumberland Coal Company.....	11,544
Western Maryland Coal Company.....	10,401
Big Vein Coal Company of West Virginia.....	8,899
Pidemont & Potomac Coal Company.....	5,439
Glade Run Coal & Coke Company.....	5,350
Beacon Coal & Coke Company	3,208
Gatzmer Coal & Coke Company	2,708
Denman Coal Company	1,665
Emory Run Coal Company	1,506
Cottage Street Coal Company.....	867
Total	1,928,937

MONONGAHELA DISTRICT.

(Counties of Barbour, Harrison, Marion, Monongalia, Preston, Randolph, Taylor and Upshur.)

Fairmont Coal Company, (16 mines in Marion; 16 in Harrison; 1 in Barbour; 1 in Monongalia).....	3,400,734
Clarksburg Fuel Company	439,498
George's Creek Coal & Iron Company.....	428,119
The Virginia & Pittsburg Coal & Coke Company.....	345,127
The Century Coal Company of West Virginia	333,250
Elkins Coal & Coke Company, (2 mines in Monongalia; 3 in Preston)...	298,218
Davis Colliery Company, (1 mine in Barbour; 4 in Randolph).....	274,591
Federal Coal & Coke Company.....	267,745
New Central Coal Company	265,142
Davis Coal & Coke Company, (1 mine in Barbour; 2 in Randolph).....	233,159
Pittsburg & Fairmont Fuel Company	223,375
Mediera-Hill-Clark Coal Company.....	217,365
Rosemont Coal Company	160,240

Hutchinson Fuel & Supply Company.....	152,509
Meadow Brook Coal & Coke Company.....	138,767
Austen Coal & Coke Company	99,948
Virginia Maryland Coal Corporation	87,547
Cook Coal & Coke Company	86,867
Connellsville Basin Coke Company.....	85,496
Irona Coal Company	83,062
Pitcairn Coal Company	81,303
Marshall Coal Company	79,374
Corona Coal & Coke Company.....	78,863
Grafton Coal & Coke Company	75,000
Preston County Coke Company.....	71,543
Fairmont & Baltimore Coal Company	63,228
Short Line Coal Company.....	60,142
O'Gara Coal Mining Company	59,278
Maryland Coal Company	58,989
Harry B. Coal Company	55,726
Monroe Colliery Company	53,248
Vincent Coal Company	52,981
Central Fairmont Coal Company	52,078
Orr Coal & Coke Company	48,993
Red Rock Fuel Company	48,586
Merchants Coal Company	47,908
Midland Coal & Coke Company	44,617
Kingwood Coal Company	43,434
Grafton Fuel Company.....	40,300
McGraw Coal Company	40,117
Tygarts River Coal Company	39,518
Pittsvein Coal Company	33,981
Meriden Coal Mining Company	33,155
Blue Ridge Coal Company	30,000
Gorman Coal & Coke Company.....	28,429
T. B. Davis	27,535
Harrison Coal Company	25,482
Parker Run Coal & Coke Company.....	24,379
Hero Coal & Coke Company	24,066
National Coal Company	22,000
Fayette Coal Company	20,612
Laurel Creek Coal Company	20,000
Haywood Coal Mining Company	19,900
Pittsburg Steam Coal Company	19,717
Kilarm Coal & Coke Company.....	17,986
Rose-Bud Coal Company	16,483
Winona Coal & Coke Company	15,631
Cook & Hart Coal Company	15,131
Lamberts Run Coal Company.....	14,395
Miller Coal & Coke Company	11,760
Oakland Coal & Coke Company	9,000
W. H. Green (Lessee)	8,928
Manufacturers Coal & Coke Company.....	8,278
Newcomer Coal Company	7,435
Southwestern Coal Company	7,322
Grant Coal Company	6,174
Harrison County Coal Company	5,829
Luella Coal & Coke Company	5,800
The Great Scott Coal Company	5,135
Buckhannon River Coal Company.....	4,568
Hite Coal & Coke Company	4,200
Hamilton Coal & Coke Company	3,600

Catawba Coal Company	3,408
Humphries Colliery Company	3,202
W. B. Gunton Coal Company	2,700
Washington Fuel Company	1,600
Dakota Coal & Coke Company	1,000
Johnson Brothers Coal Company ..	658
Total	9,326,064

WHEELING DISTRICT.

(Counties of Brooke, Hancock, Marshall and Ohio.)

LaBelle Iron Works, (1 mine in Brooke; 1 in Ohio)	150,927
Hitchman Coal & Coke Company.....	132,049
Lewis-Findley Coal Company	102,221
Beech Bottom Coal & Coke Company.....	93,624
Richland Coal Company	89,285
Wheeling Steel & Iron Company.....	57,053
LaBelle Coal Company	53,826
The Marquet Coal Company	46,756
Rex Carbon Coal Company	44,641
Whitaker-Glessner Company	33,255
Mound Coal Company	21,429
A. Gilchrist & Sons Company	14,911
Elm Grove Coal Company	10,193
Bituminous Coal Company of America	8,777
Glendale Coal Company	7,302
Boggs Run Mining & Manufacturing Company.....	7,238
Reymann Brewing Company	7,045
Peter Storch & Sons	4,800
J. S. Creighton	3,246
Total	888,578

INTERIOR DISTRICT

(Counties of Braxton, Gilmer, Greenbrier and Lewis.)

Davis Colliery Company	93,024
Elk Lick Coal Company.....	32,296
Cosmopolitan Coal & Coke Company	14,740
Jacksonville Coal & Coke Company	13,780
Total	153,840

KANAWHA-NEW RIVER DISTRICT.

(Counties of Clay, Fayette, Kanawha, Lincoln, Mason, Nicholas, Putnam, Boone and Raleigh.)

The New River Company (6 mines in Raleigh and 27 in Fayette).....	1,804,568
Sunday Creek Company, (4 mines in Kanawha and 4 in Fayette).....	925,498
Cabin Creek Consolidated Coal Company	861,165
New River Collieries Company.....	645,132
Boomer Coal & Coke Company	623,880
New River & Pocahontas Consolidated Coal Company.....	615,133
McKell Coal & Coke Co. (4 mines in Raleigh; 2 in Fayette).....	512,787
Paint Creek Collieries Company	481,458
Raleigh Coal & Coke Company.....	367,908
West Virginia Colliery Company	238,770
The Campbell's Creek Coal Company	210,081
Loup Creek Colliery Company	203,018
Piney Mining Company	191,406
Kellys Creek Colliery Company	187,004

The Low Moor Iron Company of Virginia.....	183,455
Wyatt Coal Company.....	169,595
Big Coal Company	166,312
Republic Coal Company	163,798
The Otto Marmet Coal & Mining Company.....	149,452
Ephraim Creek Coal & Coke Company	146,916
Carbon Coal Company	140,086
Keeneys Creek Colliery Company	140,000
Chesapeake Mining Company	135,928
Winifrede Coal Company	124,994
The Marmet Coal Company	118,452
Holley & Stephenson Coal & Coke Company.....	118,034
Plymouth Coal & Mining Company	115,309
The Carver Brothers Company	112,351
The Star Coal & Coke Company.....	110,393
Turkey Knob Coal Company	110,040
Stonewall Coal & Coke Company.....	109,442
Black Betsey Coal & Mining Company	106,883
The Columbus Iron & Steel Company	104,810
Imperial Colliery Company	98,764
Cannelton Coal Company	98,006
The Gauley Mountain Coal Company	95,561
M. B. Coal & Coke Company	94,507
Gamoca Coal Company	93,408
Wright Coal & Coke Company	93,259
Slab Fork Coal Company	92,739
Standard Splint & Gas Coal Company	90,177
Nichol Colliery Company	88,600
Mecca Coal & Coke Company	88,457
Hughes Creek Coal Company	86,965
The Thurmond Coal Company	85,963
Hemlock Hollow Coal & Coke Company.....	85,486
Beechwood Coal & Coke Company.....	83,706
Herbert Collieries Company	77,632
Meseley & Walker	77,257
Lynchburg Colliery Company	76,021
Lrown Coal Company	70,050
Blume Coal & Coke Company	67,206
Greenwood Coal Company	63,551
Nuttallburg Collieries Company.....	61,765
Stone Cliff Coal & Coke Company	61,474
Ballinger Coal Company	61,168
Olcott Coal & Iron Company	58,969
Fort Defiance Coal & Coke Company.....	57,766
Laura Mining Company	56,495
LaMont Mining Company	56,449
Price Hill Fuel Company	55,553
Dry Branch Coal Company	55,461
The Mount Carlton Company (Ld.).....	54,963
South Side Company	53,726
Mason City Coal Mining Company	47,492
Beury Brothers Coal & Coke Company.....	45,016
Wake Forest Mining Company	44,788
W. R. Johnson & Company	42,854
The Dungen Coal Company	41,863
Branchland Coal Company	41,288
Kanawha Gas Coal Company	40,894
Deitz Colliery Company	39,875

Manufacturers & Consumers Coal Company	37,624
Quincy Coal Company, Inc.....	36,982
Montgomery Coal Company	36,563
Laurel Creek Coal Company	34,975
Coalburg Colliery Company	34,869
Blue Creek Coal & Land Company	34,170
Quinnimont Coal Company	34,069
Fire Creek Coal & Coke Company	32,209
W. R. Johnson	31,248
The Coalburg-Kanawha Coal Company	30,237
Rothwell Coal Company	29,868
Meadow Fork Coal Company	29,698
Michigan Coal Company	28,716
Glendale Colliery Company	28,699
Elverton Coal & Coke Company	28,000
Hartford Coal & Mining Company	25,989
Alaska Coal & Coke Company	24,463
Export Coal Company	23,019
Ridgeview Coal Company	22,864
Queen Shoals Coal Company	22,322
Lookout Coal & Coke Company	21,660
Elk River Coal & Lumber Company ✓.....	21,333
Holliday Coal Company	20,000
Sunbeury Coal & Coke Company.....	17,310
The Clay Coal Company	17,150
South Western Splint Fuel Company.....	16,070
Blue Jay Lumber Company	16,000
Newlyn Coal Company	15,885
The Liverpool Salt & Coal Company.....	15,717
Mill Creek Colliery Company.....	15,615
The Fayette Coal & Coke Company.....	15,600
Frank Ellison	14,569
Sullivan Coal & Coke Company	14,149
Raven Collieries	13,611
The New Cedar Grove Coal & Brick Company.....	13,606
Saxman Coal & Coke Company.....	13,467
Mill Creek Cannel Coal Company.....	13,251
The Elk Coal Company	12,518
Equitable Coal Company	12,430
Beury-New River Coal Company	12,034
E. E. White Coal Company	10,000
Big Bend Coal Company	9,873
Pen Mar Mining Company	8,635
Beech Grove Coal Company.....	8,284
Falling Rock Cannel Coal Company	7,634
Consumers Coal & Mining Company	6,970
Williams Coal Company	6,912
New River Valley Coal Company	6,567
Marrs Branch Coal Company	6,035
Arminius Coal Company	5,804
Morris Creek Colliery Company.....	5,546
Roderick Coal Company	5,177
Oak Forest Coal & Mining Company	4,990
Carter Coal Company	4,464
Pardee & Curtin Lumber Company	3,924
Gaymont Colliery Company	3,958
Kentucky Coal & Lumber Company	3,750

Queen Coal & Coke Company	3,707
Persinger Coal Company	3,650
St. Clair Colliery Company	3,643
Dixie Coal Works	3,250
The Coal River Company	2,915
Alpha Coal Mining Company	1,786
Aeme Steam Coal Company	1,730
Mt. Hope Coal & Coke Company	741
Chelyan Fuel Company	714
The Spruce River Company	536
Total	14,128,086

NORFOLK & WESTERN DISTRICT

(Counties of Logan, McDowell, Mercer, Mingo and Wayne.)

United States Coal & Coke Company	1,712,571
United States Coal & Oil Company	1,120,885
Pocahontas Consolidated Collieries Company, (2 mines in Mercer and 7 in McDowell)	1,102,560
Red Jacket Consolidated Coal & Coke Company	481,541
American Coal Company of Alleghany County	472,144
Turkey Gap Coal & Coke Company	369,747
Mill Creek Coal & Coke Company	357,178
Houston Coal & Coke Company	294,194
Pulaski Iron Company	290,152
The Empire Coal & Coke Company	287,344
New River & Pocahontas Consolidated Coal Company	259,345
Thacker Coal & Coke Company	245,793
Page Coal & Coke Company	232,915
McDowell Coal & Coke Company	232,226
Crozer Coal & Coke Company	226,754
Big Sandy Coal Company	225,609
Superior-Pocahontas Coal Company	218,415
Elkhorn Coal & Coke Company	199,755
Ashland Coal & Coke Company	192,975
Glen Alum Coal Company	189,570
The Monitor Coal & Coke Company	187,941
The Tidewater Coal & Coke Company	170,984
Louisville Coal & Coke Company	169,450
Upland Coal & Coke Company	162,991
Powhatan Coal & Coke Company	162,681
Greenbrier Coal & Coke Company	161,068
Virginia-Pocahontas Coal Company	153,896
Algoma Coal & Coke Company	153,467
The King Coal Company	150,334
Bottom Creek Coal & Coke Company	146,374
Gilliam Coal & Coke Company	145,649
Lynchburg Coal & Coke Company	145,342
Peerless Coal & Coke Company	143,397
Eureka Coal & Coke Company	141,155
The Thomas Coal Company	135,049
J. B. B. Collieries Company	133,500
Spring Coal Mining Company	133,413
Booth-Bowen Coal & Coke Company	130,542
Crystal Coal & Coke Company	118,278
Middle States Coal & Coke Company	118,128
Arlington Coal & Coke Company	117,644
Shawnee Coal & Coke Company	116,386

Keystone Coal & Coke Company	116,239
Indian Ridge Coal & Coke Company	116,202
Buckeye Coal & Coke Company	115,912
Elk Ridge Coal & Coke Company	107,184
War Eagle Coal Company	105,635
Oregon Coal Company	101,549
Roanoke Coal & Coke Company	99,672
Zenith Coal & Coke Company	92,680
The Weyanoke Coal & Coke Company	89,944
Howard Colliery Company	86,579
The Gay Coal & Coke Company	84,823
Jed Coal & Coke Company	83,000
Chattaroy Colliery Company	82,771
Draper Coal & Coke Company	76,007
The Buffalo Collieries Company	73,779
Twin Branch Mining Company	72,621
Hiawatha Coal & Coke Company	70,805
Pawana Coal & Coke Company	67,708
Hall Mining Company	64,421
Black Wolf Coal & Coke Company	60,364
Margaret Mining Company	60,000
Marvin Coal & Coke Company	58,061
Cera Coal & Coke Company	58,055
H. T. Wilson Coal Company	57,629
Linghocken Coal Company	54,889
Dixon Pocahontas Fuel Company	53,796
The Yuma Coal & Coke Company	53,528
The Logan Coal Company	51,322
Cirrus Coal & Coke Company	47,621
Thacker Fuel Company	46,738
Welch Coal & Coke Company	46,000
Price Coal Company	45,268
Mohawk Coal & Coke Company	45,031
Maier Coal & Coke Company	44,791
The Ethel Coal Company	41,891
The Pando Coal Company	40,860
Rex Coal Company	39,117
Winonah Coal & Coke Company	38,216
Premier-Pocahontas Collieries Company	37,146
Winifrede Consolidated Coal Company	35,713
Hemphill Colliery Company	35,500
Stone Branch Coal Company	35,400
East Lynn Coal Company	34,619
Atlas-Pocahontas Coal Company	31,606
Williamson Coal & Coke Company	31,353
Fort Branch Coal Company	27,678
The Smokeless Coal & Coke Company	27,000
Slick Rock Coal Company	27,000
Lynn Coal & Coke Company	18,846
Big Creek Coal Company	18,749
Henrietta Coal & Coke Company	17,000
Rawl Coal & Coke Company	16,069
Cephus Coal Company	13,393
Virginia Fuel Company	12,533
Naugatuck Coal Company	12,464
Dry Fork Colliery Company	12,492
Dry Fork Mining & Investment Company	11,762
E. R. Johnson Coal Mining Company	10,770
Vaughan Coal & Coke Company	9,386

Kenova Coal Mining Company	8,666
Hurricane Branch Coal Company	7,400
Lemoine Coal Company	5,042
Flat Top Coal & Mining Company	4,623
W. T. Poole Coal Company	4,464
War Creek Coal Company	4,092
Pearl Coal Mining Company	3,382
T. D. Lee	3,341
Central Pocahontas Coal Company	2,723
White Star Mining Company	2,666
Warfield Coal Company	2,226
Reynolds Mining Company	1,700
Pocahontas-Domestic Coal Company	1,407
Total	15,088,261

*A COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED
COAL, BY COUNTIES, 1909.*

(Tons of 2,240 lbs.)

COUNTY.	(Tons of 2,240 lbs.)		
	Pick Mined Coal.	Machine Mined Coal.	Total Production.
Brooke	60,038	389,609	449,647
Hancock	10,664	36,092	46,756
Marion	1,741,259	1,992,506	3,733,765
Marshall	26,843	207,005	233,848
Ohio	56,770	101,557	158,327
Harrison	1,112,617	1,893,072	3,005,689
Lewis .....	.....	13,780	13,780
Upshur	37,758	22,831	60,589
Barbour	351,744	383,289	735,033
Monongalia	193,423	42,393	235,816
Preston	508,028	145,705	653,733
Taylor	235,356	102,277	337,633
Grant	12,411	164,995	177,406
Mineral	720,995	24,663	745,658
Randolph	463,206	.....	463,206
Tucker	930,627	75,246	1,005,873
Braxton	93,024	.....	93,024
Gilmer	14,740	.....	14,740
Mason	74,743	32,059	106,802
Putnam	373,450	4,900	378,350
Clay	7,321	18,476	25,797
Fayette	5,176,581	2,421,166	7,597,747
Kanawha	823,035	3,313,178	4,136,213
Boone	3,451	.....	3,451
Nicholas	23,195	17,361	40,556
Greenbrier	32,296	.....	32,296
Raleigh	1,364,070	433,742	1,797,812
Mercer	2,023,813	79,450	2,103,263
McDowell	7,978,953	1,436,116	9,415,069
Lincoln	8,666	41,288	49,954
Logan	45,043	1,864,020	1,909,063
Mingo	455,183	1,162,398	1,617,581
Wayne	34,619	.....	34,619
Totals	25,094,502	16,419,264	41,513,766
Small Mines	180,000	.....	180,000
Grand Totals	25,274,502	16,419,264	41,693,766

*SUMMARY OF THE MACHINE MINED COAL IN THE STATE FOR
THE YEAR ENDING JUNE 30TH, 1909.*

COUNTY.	Number of Mines Using Machines.	Number of Ma- chines.	Tons of Coal Pro- duced by Ma- chines (Tons of 2,240 lbs.)	Number of Machine Miners.	Number of Machine Runners and Hel- pers.	Total Number of Machine Men Em- ployed.
Brooke	5	31	389,609	475	73	548
Hancock	1	4	36,092	50	8	58
Marion	19	143	1,992,506	1,001	246	1,247
Marshall	5	26	207,005	223	32	255
Ohio	3	7	101,557	151	14	165
Harrison	41	203	1,893,072	1,143	305	1,448
Lewis	1	4	13,780	35	8	43
Upshur	2	4	22,831	35	8	43
Barbour	8	44	383,289	231	57	288
Monongalia	6	13	42,383	45	13	58
Preston	11	45	145,705	250	41	291
Taylor	10	12	102,277	91	20	111
Grant	1	16	164,995	90	32	122
Mineral	1	3	24,663	33	6	39
Tucker	3	8	75,246	76	10	86
Mason	2	7	32,059	45	8	53
Putnam	1	2	4,990	20	4	24
Clay	1	2	18,476	28	9	37
Fayette	76	264	2,421,166	2,097	449	2,546
Kanawha	95	361	3,313,178	12,836	649	3,485
Nicholas	2	4	17,361	20	6	26
Raleigh	15	47	433,742	314	62	376
Mercer	5	13	79,450	48	22	70
McDowell	34	150	1,436,116	1,058	212	1,270
Lincoln	1	7	41,288	45	5	50
Logan	27	108	1,864,020	916	178	1,094
Mingo	28	146	1,162,398	785	273	1,058
Totals	404	1,674	16,419,264	12,141	2,750	14,891

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Mine Machines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	No. of Machine Miners.	Number of Machine Runners and Helpers.	Total No. Men Employed by Machine Mining.
<i>Brooke County.</i>						
La Belle Coal Co.	Lewis No. 1	3	53,826	70	10	80
Beech Bottom Coal Co.	Beech Bottom No. 1	4	64,086	75	7	82
Lewis-Findley Coal Co.	Locust Grove	6	88,417	145	22	167
La Belle Iron Works.	La Belle Shaft	12	140,424	100	22	122
Rey Carbon Coal Co.	Rex No. 1	6	42,836	85	12	97
Totals.....		31	389,669	475	73	548
<i>Hancock County.</i>						
The Marquet Coal Co.	No. 4	4	36,092	50	8	58
Totals.....		4	36,092	50	8	58
<i>Marion County.</i>						
Fairmont Coal Co.	Murray	3	26,059	15	6	21
Fairmont Coal Co.	Montana	7	98,509	48	10	58
Fairmont Coal Co.	Shaft	6	111,936	65	12	77
Fairmont Coal Co.	New England	10	113,878	80	20	100
Fairmont Coal Co.	Gaston	7	100,187	47	10	57
Fairmont Coal Co.	Fairmont	2	41,714	18	6	24
Fairmont Coal Co.	Monongah No. 2	2	21,716	20	2	22
Fairmont Coal Co.	Monongah No. 3	8	82,546	40	16	56
Fairmont Coal Co.	Monongah No. 6	9	206,455	90	16	106
Fairmont Coal Co.	Monongah No. 8	4	160,944	69	8	77
Fairmont Coal Co.	Shaver	10	14,617	...	...	...
Fairmont Coal Co.	Anderson	4	70,842	30	8	38
Fairmont Coal Co.	Highland	5	89,758	45	10	55
Fairmont Coal Co.	Middleton	6	100,566	43	12	55
Fairmont Coal Co.	Chileton	6	70,491	44	6	50
Fairmont Coal Co.	Hutchinson	3	241,164	130	40	170
Georges Creek Coal & Iron Co.	Chatham Shaft	22	220,198	65	30	95
New Central Coal Co.	Stafford	19	196,547	97	28	125
Federal Coal Co.	Federal	14	24,359	35	6	41
Parker Run Coal & Coke Co.	Parker Run	4	...	...	...	...
Totals.....		143	1,992,506	1,001	246	1,247

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Number of Mine Ma- chines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	Number of Machines Running and Help- ers.	Number of Men Employed by Ma- chine Min- ing.
<i>Harrison County--Cont.</i>					
Maderia-Hill-Clark Coal Co.	New Chieftain and Ran- dolph	7	78,140	70	86
Maderia-Hill-Clark Coal Co.	O' Gara	4	59,278	50	60
O' Gara Coal Mining Co.	Pitcairn	3	57,094	41	47
Pitcairn Coal Co.	Marshall	7	24,581	40	50
Marshall Coal Co.	Hutchinson	12	142,829	52	70
Hutchinson Fuel & Supply Co.					
Totals.....		293	1,893,972	1,143	1,448
<i>Lewis County.</i>					
Jacksonville Coal & Coke Co.	Sarah B. No. 3	4	13,780	35	43
Totals.....		4	13,780	35	43
<i>Upsher County.</i>					
Red Rock Fuel Co.	Nos. 1 and 2	4	22,831	35	43
Totals.....		4	22,831	35	43
<i>Barbour County.</i>					
Moriden Coal Mining Co.	Nos. 1, 2 and 4	5	32,655	40	44
Tygart's River Coal Co.	Ardan	6	36,552	25	29
Fairmont Coal Co.	Berryburg	14	100,210	44	63
Grafton Fuel Co.	Lillian No. 1	4	19,300	20	28
The Century Coal Co., of W. Va.	Century No. 1	13	149,455	77	95
Midland Coal & Coke Co.	Midland	2	44,617	25	29
Totals.....		44	383,289	231	288
<i>Monongalia County.</i>					
Fairmont Coal Co.	Beechwood	3	14,334	12	18
Elkins Coal & Coke Co.	Richard	1	642	4	8
Elkins Coal & Coke Co.	Sabratton	3	17,299	10	13
Cornellsville Basin Coke Co.	Nos. 1, 2 and 3	6	10,008	19	19
Totals.....		13	42,283	45	58

NAME OF COMPANY.	NAME OF MINE.	Number of Mine Ma- chines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	Number of Machine Runners and Helpers.	Total No. Men Em- ployed by Machine Mining.
<i>Clay County.</i>					
Elk River Coal & Lumber Co.	Dundon	2	18,476	28	32
Totals.		2	18,476	28	32
<i>Fayette County.</i>					
Sunday Creek Co.	No. 111	5	164,227	102	112
Sunday Creek Co.	No. 112	6	174,398	115	127
Sunday Creek Co.	No. 114	5	98,973	70	82
Sunday Creek Co.	No. 115	5	167,063	92	102
The Columbus Iron & Steel Co.	No. 1	1	102,784	48	60
Kanawha Gas Coal Co.	Eagle	1	1,420	5	7
W. R. Johnson & Co.	Oakland	4	26,781	30	36
Boomer Coal & Coke Co.	No. 1	6	51,225	114	126
Boomer Coal & Coke Co.	No. 2 North	0	112,487	84	96
Boomer Coal & Coke Co.	No. 2 South	5	76,082	45	51
Boomer Coal & Coke Co.	No. 3	9	148,432	116	130
Paint Creek Collieries Co.	Hickory Camp	2	36,673	35	39
Eureka Colliery Co.	No. 13	1	2,642	10	12
Eureka Colliery Co.	No. 14	2	4,575	10	14
W. R. Johnson	Splint No. 6	1	1,888	12	14
Mecca Coal & Coke Co.	No. 2	1	5,282	10	12
The Carver Bros. Co.	Diamond	3	33,443	60	66
M. B. Coal Co.	No. 5	3	18,934	16	18
M. B. Coal Co.	Elk Ridge No. 1	3	49,982	60	64
M. B. Coal Co.	Elk Ridge No. 2	3	25,561	34	38
The Mount Carbon Co., Ltd.	Vulcan	2	10,311	6	10
Great Kanawha Colliery Co.	Brewster, Digby & Edwards	2	43,014	17	24
Mt. Creek Colliery Co.	Mt. Creek	3	15,615	20	24
The Gauley Mountain Coal Co.	Nova Scotia & Turkey Creek	7	47,882	75	95
Sunbeury Coal & Coke Co.	Sunny Side	21	10,215	20	26
Gaymont Colliery Co.	Gaymont	3			
Beury—New River Coal Co.	Elmo	2			
Michigan Coal Co.	Michigan	3	12,034	10	14
Brown Coal Co.	Brown	3	5,264	10	14
Nuttallong Collieries Co.	Nuttallong	4	61,095	20	24
Keeney's Creek Colliery Co.	Nuttallong & Keeney's Crk.	4	19,386	25	31
Keeney's Creek Colliery Co.	Smokeless	4	15,000	10	14
Keeney's Creek Colliery Co.	Boone	3	30,000	25	31

c Not in use.

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Number of Machine Miners.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	Number of Machine Miners.	Number of Machine Runners and Helpers.	Total No. of Men Employed by Ma- chine Mining.
<i>Kanawha County.—Cont.</i>						
Sunday Creek Coal Co.	No. 104	4	47,567	60	8	68
Sunday Creek Coal Co.	No. 105	11	123,567	100	16	116
Sunday Creek Coal Co.	No. 100	5	51,339	50	8	58
New Cedar Grove Coal & Brick Co.	No. 1 & 2	2	10,763	8	4	12
Kellys Creek Colliery Co.	No. 1	4	49,875	55	8	63
Kellys Creek Colliery Co.	No. 1	1	137,120	110	16	125
Hughes Creek Coal Co.	No. 3 & 4	9	56,046	90	14	104
Hughes Creek Coal Co.	No. 2 & 3	3	15,276	14	2	16
Cannellton Coal Co.	No. 2	13	70,290	51	21	72
The Marmet Coal Co.	Monarch	2	4,612	3	2	5
The Marmet Coal Co.	Butler No. 2	4	22,530	20	8	28
The Marmet Coal Co.	Butler No. 3	3	9,388	13	6	19
The Marmet Coal Co.	Butler No. 5	3	31,002	27	8	35
Oleott Coal & Iron Co.	Oleott No. 1	2	13,654	20	4	24
Oleott Coal & Iron Co.	Oleott No. 2	2	30,128	45	6	51
Winfred Coal Co.	South	5	19,650	35	6	41
Winfred Coal Co.	North Pick & Machine	3	9,353	20	4	24
Winfred Coal Co.	West	3	34,776	55	8	63
Winfred Coal Co.	New Coalburg	4	4,357	40	7	47
Dry Branch Coal Co.	Gas	2	16,989	15	2	17
Dry Branch Coal Co.	Coalburg	1	33,955	40	8	48
Dry Branch Coal Co.	Belmont	4	20,046	30	6	36
Dry Branch Coal Co.	Ronda	4	43,758	30	6	36
Coalburg Colliery Co.	Oakley	3	29,395	21	6	27
Wyatt Coal Co.	South Horton	3	60,084	60	6	66
Wyatt Coal Co.	Wilton	1	3,181	8	2	10
Wyatt Coal Co.	No. 1	3	8,057	35	8	41
Persinger Coal Co.	No. 3	3	48,392	40	16	48
Lancout Mining Co.	No. 2	8	58,034	30	8	38
Lancout Mining Co.	No. 5	6	60,000	40	4	46
Holley & Stephenson Coal & Coke Co.	No. 2	3	44,788	18	2	20
Holley & Stephenson Coal & Coke Co.	Wake Forest	1	31,175	20	7	27
Carbon Coal Co.	North	5	31,436	16	6	21
Carbon Coal Co.	South	3	47,175	28	6	34
Carbon Coal Co.	South Split	3	38,700	30	6	36
Republic Coal Co.	No. 1	3	51,268	32	6	38
Republic Coal Co.	No. 2	3	37,020	22	6	28
Republic Coal Co.	No. 3	3				

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Number of Mine Machines.	Tons of Coal Produced by Machine (Tons of 2,240 lbs.)	Number of Machine Miners.	Number of Machine Runners and Helpers.	Total No. Men Employed by Machine Mining.
<i>Nicholas County.</i>						
Kentucky Coal & Lumber Co.	Mt. Carmel	2	3,750	10	2	12
Raven Collieries	Raven	2	13,611	10	4	14
Totals		4	17,361	20	6	26
<i>Raleigh County.</i>						
Big Coal Co.	Dorothy	7	163,721	101	14	115
New River Collieries Co.	Eccles No. 11	1	15,265	2	2	4
McKell Coal & Coke Co.	Oswald & Sidney	5	26,524	25	8	33
McKell Coal & Coke Co.	Graham	3	713	4	2	6
Stonewall Coal & Coke Co.	Terry	1				
Raleigh Coal & Coke Co.	No. 3	2	34,800	20	4	24
Raleigh Coal & Coke Co.	No. 6	5	98,722	60	10	70
Cranberry Fuel Co.	Skelton	4	25,271			
Cranberry Fuel Co.	Cranberry	2	2,214	3	2	5
Cranberry Fuel Co.	Prosperity	3	2,214	4	4	8
Price Hill Fuel Co.	Price Hill	5	16,020	30		30
Slab Fork Coal Co.	Nos. 1, 2, 3 & 4	7	47,675	40	14	54
Totals		48	433,742	289	60	349
<i>Mercer County.</i>						
American Coal Co. of Alleghany Co.	Piedmont Nos. 1 & 2	9	60,451	30	14	44
The Weyanoke Coal & Coke Co.	Weyanoke	3	17,115	14	4	18
The Weyanoke Coal & Coke Co.	Ellin	1	1,884	4	2	6
Wenonah Coal & Coke Co.	Wenonah	1				
Totals		14	79,450	48	20	68
<i>McDonnell County.</i>						
Indian Ridge Coal & Coke Co.	Indian Ridge	2	19,265	8		8
McDowell Coal & Coke Co.	McDowell	4	38,705	14	6	20
New River & Pocahontas Consolidated Coal Co.	Nos. 1, 2 & 3	17	259,345	125	24	149
Mohawk Coal & Coke Co.	Mohawk	8	45,031	30	10	40
Virginia-Pocahontas Coal Co.	No. 5.	1	446	5	2	7

*Not in use.

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE YEAR ENDING JUNE 30TH, 1909.					
NAME OF COMPANY.	NAME OF MINE.	Number of Mine Machines.	Tons of Coal Produced by Machine (Tons of 2,240 lbs.)	Number of Machine Runners and Helpers.	Total No. of Men Employed by Machine Mining.
<i>Logan County.—Cont'd.</i>					
The Monitor Coal & Coke Co.	Monitor.	5	128,211	63	71
The Monitor Coal & Coke Co.	Beechwood.	3	36,730	34	38
The Yuma Coal & Coke Co.	Yuma.	3	53,528	25	30
The Gay Coal & Coke Co.	Gay.	3	84,823	24	30
Cora Coal & Coke Co.	Cora.	4	58,055	33	37
United States Coal & Oil Co.	Island Creek No. 1.	7	332,767	171	185
United States Coal & Oil Co.	Island Creek No. 2.	8	391,490	177	193
United States Coal & Oil Co.	Island Creek No. 3.	4	122,220	53	66
United States Coal & Oil Co.	Island Creek No. 4.	3	97,747	52	57
United States Coal & Oil Co.	Island Creek Nos. 5 & 6.	4	160,739	63	77
Totals		108	1,864,020	916	1,064
<i>Mingo County.</i>					
Pearl Coal Mining Co.	Haggerty.	2	3,382	20	23
Naughtuck Coal Co.	Blocton.	6	12,464	30	42
Warfield Coal Co.	Warfield.	4	2,226	16	24
Lemmon Coal Co.	Lemmon.	4	5,042	12	20
Chattahoo Colliery Co.	Chattahoo.	10	82,771	30	44
The Buffalo Collieries Co.	Buffalo.	10	73,779	35	55
Lingboeken Coal Co.	Nos. 5, 6, 7 & 8.	6	27,843	20	46
Howard Colliery Co.	Howard.	10	86,579	40	66
Winfred Consolidated Coal Co.	Sugar Tree.	5	35,713	20	72
Williamson Coal & Coke Co.	No. 3.	6	31,353	38	73
Rawl Coal & Coke Co.	No. 1.	4	8,925	10	54
Rawl Coal & Coke Co.	No. 2.	3	7,144	6	16
Marvin Coal Co.	Marvin.	6	58,061	30	40
White Star Mining Co.	Commercial.	5	2,666	10	20
Red Jacket Consolidated Coal Co.	Rutherford.	4	54,331	30	38
Red Jacket Consolidated Coal Co.	Logan.	1	11,560	3	5
Thacker Coal & Coke Co.	Red Jacket.	8	80,427	30	46
Thacker Coal & Coke Co.	No. 2.	4	22,342	15	20
Thacker Coal & Coke Co.	No. 3.	4	263,280	95	113
Thacker Coal & Coke Co.	No. 10.	9	40,053	24	45
Glen Alum Coal Co.	Nos. 1 & 2.	4	146,812	100	124
War Eagle Coal Co.	Papoose.	12	30,869	60	68
War Eagle Coal Co.	Mephisto.	1	65,766	75	85

Margaret Mining Co	Totals	Margaret	9	60,000	30	16	46
			146	1,162,398	798	277	1,075

*SUMMARY OF THE NUMBER AND KINDS OF MINING MACHINES
IN USE IN THE STATE FOR THE YEAR ENDING
JUNE 30TH, 1909.*

COUNTY.	Electrical Mine Machines.							Compressed Air Mine Machines.				Total No. of Machines.	Tons of Coal Produced by Machines. (Tons of 2,240 lbs.)
	Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneum-electric.	Harrison.	Ingersoll-Rand.	Sullivan.	Jeffrey.		
Brooke	28			3								31	389,609
Hancock	4											4	36,092
Marion	51	23		2	6	2		21	19	7	12	143	1,992,506
Marshall	20							6				26	207,005
Ohio	6		1									7	101,557
Harrison	70	26	6				1	55	29	17		204	1,893,072
Lewis								4				4	13,780
Upshur	4											4	22,831
Barbour	20	8	1	5				4	3		4	45	383,289
Monongalia	6	6		1								13	42,383
Preston	2	6	6	7				18	2		4	45	145,705
Taylor	1	5	3	2			2					13	102,277
Grant									15		1	16	164,995
Mineral	3											3	24,663
Tucker									4	4		8	75,246
Mason	2	5										7	32,059
Pulnam		2										2	4,990
Clay				2								2	18,476
Fayette	78	24	48	42		5	2	63				262	2,421,166
Kanawha	142	158	27	12				19	3			361	3,313,178
Nicholas		4										4	17,361
Raleigh	17	9	1	3		1	3	11		2		47	433,742
Mercer	3	2							9			14	79,450
McDowell	13	6	12	44				16	59			150	1,436,116
Lincoln								7				7	41,288
Logan	37	5	7	4			1	43		11		108	1,864,020
Mingo	25	12		1	4			85	12	7		146	1,162,398
Totals	530	291	108	123	10	8	9	352	153	50	21	1,655	16,449,264

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.							Compressed Air Mine Machines.				Total Number of Machines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	
		Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneumatic.	Harrison.	Ingersoll-Rand.	Sullivan.	Jeffrey.			
<i>Brooke County.</i>															
La Belle Coal Co.	Lewis No. 1	3												3	53,826
Beech Bottom Coal Co.	Beech Bottom No. 1	1												4	64,086
Lewis-Pindley Coal Co.	Locust Grove	6			3									6	88,417
La Belle Iron Works	La Belle Shaft	12												12	140,424
Rex Carbon Coal Co.	Rex No. 1	6												6	42,856
Totals		28			3									31	389,609
<i>Hancock County.</i>															
The Marquet Coal Co.	No. 4	4												4	36,092
Totals		4												4	36,092
<i>Marion County.</i>															
Fairmont Coal Co.	Murray	3												3	26,059
Fairmont Coal Co.	Montana	1												1	98,509
Fairmont Coal Co.	Shaft	6												6	111,935
Fairmont Coal Co.	New England	10												10	113,878
Fairmont Coal Co.	Gaston	1												1	100,187
Fairmont Coal Co.	Monongah No. 2		2											2	41,714
Fairmont Coal Co.	Monongah No. 6		9											9	82,546
Fairmont Coal Co.	Monongah Nos. 3 & 8		4											4	298,171
Fairmont Coal Co.	Shaver														163,944
Fairmont Coal Co.	Anderson				2									2	14,617
Fairmont Coal Co.	Highland	4				6								4	70,842
Fairmont Coal Co.	Middleton	3												3	89,758
Fairmont Coal Co.	Chickton	6												6	100,566
Fairmont Coal Co.	Hutchinson	3												3	70,491
Georges Creek Coal & Iron Co.	Chatham Shaft												3	6	221,164
New Central Coal Co.	Stafford													5	290,198
Federal Coal & Coke Co.	Federal No. 1												10	4	96,547

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.							Compressed Air Mine Machines.			Total Number of Machines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)
		Jeffrey.	Morgan-Carther.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneumoelectric.	Harrison.	Ingersoll-Rand.	Sullivan.	Jeffrey.	
<i>Harrison County.</i> —Cont'd.													
Harrison County Coal Co.	Overholt & Phoenix			1			4			3			5,110
W. B. Guntion Coal Co.	Rose-Bad			1									2,700
Rose-Bad Coal Co.	Sylvester												19,025
Monroe Colliery Co.	Goff												53,248
Madeira-Hill-Clark Coal Co.	Waldo						1				8		5,310
Madeira-Hill-Clark Coal Co.	New Chieflain & Randolph		6					1					66,361
Madeira-Hill-Clark Coal Co.	O'Gara						2						78,140
O'Gara Coal Mining Co.	Pitcairn												59,278
Pitcairn Coal Co.	Marshall	3											57,004
Marshall Coal Co.	Hutchinson		1	2			3				6		24,581
Hutchinson Fuel & Supply Co.													142,829
Totals		70	26	6			55	1		29	17		1,893,072
<i>Lewis County.</i>													
Jacksonville Coal & Coke Co.	Sarah B. No. 3						4						13,780
Totals							4						13,780
<i>Upshur County.</i>													
Red Rock Fuel Co.	Nos. 1 & 2	4											22,831
Totals		4											22,831
<i>Barbour County.</i>													
Meriden Coal Mining Co.	Meriden Nos. 1, 2 & 4	3	1	1									32,655
Tygart's River Coal Co.	Ardon											4	36,552
Farmont Coal Co.	Berryburg				2		2						100,210
The Century Coal Co. of West Virginia.	Century No. 1	11					1						149,955
Grafton Fuel Co.	Lillian No. 1	6					1				3		19,300
Miller Coal & Coke Co.	Sara				1								4

*Not in use.

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.						Compressed Air Mine Machines.			Total Number of Machines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	
		Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneumatic.	Harrison.	Ingersoll-Rand.			Sullivan.	Jeffrey.
<i>McDowell County—Cont.</i>													
United States Coal & Coke Co.	No. 5												39,580
United States Coal & Coke Co.	No. 9	1											2,987
United States Coal & Coke Co.	No. 10				3								65,365
United States Coal & Coke Co.	No. 11												143,062
United States Coal & Coke Co.	No. 12				3								38,449
Black Wolf Coal & Coke Co.	No. 4			4									57,546
Welch Coal & Coke Co.	No. 4												9,000
Hemphill Colliery Co.	Welch												5,000
Middle States Coal & Coke Co.	Hemphill												5,000
Dixon-Pocahontas Fuel Co.	No. 11	3											118,128
Dixon-Pocahontas Fuel Co.	North		2										29,500
Dixon-Pocahontas Fuel Co.	South		12										16,296
Bottom Creek Coal & Coke Co.	Bottom Creek	1											18,567
Powhatan Coal & Coke Co.	Powhatan												5,500
Totals		13	6	12	44		16	50					1,436,116
<i>Lincoln County.</i>													
Branchland Coal Co.	Branchland						2						41,288
Totals							2						41,288
<i>Logan County.</i>													
Stone Branch Coal Co.	Nos. 1, 2, 3, 4, 5, 6, 7 & 8	4	2										34,889
Big Creek Coal Co.	Big Creek	3											18,749
E. R. Johnson Coal Mining Co.	Johnson	1		1									10,770
Draper Coal & Coke Co.	Draper												62,207
H. T. Wilson Coal Co.	Wilson						6			2			42,929
Fort Branch Coal Co.	Fort Branch						5						27,467 8
Price Coal Co.	Price						6						45,268
Rex Coal & Coke Co.	Rex						6			6			30,117
The Logan Coal Co.	Logan						2						51,322
The Ethel Coal Co.	Ethel						2			1			41,891

The Monitor Coal & Coke Co.	Monitor	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220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TABLE SHOWING THE COMPARATIVE STATEMENT OF THE COKE
PRODUCTION FOR 1908 AND 1909.
(Tons of 2000 lbs.)

COUNTY.	1909	1908	Increase of 1909 Over 1908	Decrease of 1909 Under 1908
Marion	65,213	105,743	.....	40,530
Harrison	275	1,092	.....	817
Upshur .....	.....	4,010	.....	4,010
Barbour	27,203	44,359	.....	17,156
Monongalia	117,254	76,386	40,868	.....
Preston	175,915	138,644	37,271	.....
Taylor	5,302	.....	5,302	.....
Randolph	128,401	129,273	.....	872
Tucker	97,684	149,229	.....	51,545
Fayette	525,154	415,425	109,729	.....
Kanawha .....	.....	12,124	.....	12,124
Raleigh .....	.....	497	.....	497
Mercer	220,681	219,597	1,084	.....
McDowell	1,733,479	1,681,884	51,595	.....
Totals	3,096,561	2,978,263	245,849	127,551

ORDER IN THE PRODUCTION OF COKE.
1897—1909.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
McDowell	1	1	1	1	1	1	1	1	1	1	1	1	1
Fayette	2	2	2	2	2	2	2	2	2	2	2	2	2
Tucker	3	3	5	4	3	3	3	3	4	4	4	4	7
Mercer	5	4	3	5	4	5	5	4	3	3	3	3	3
Marion	4	5	4	3	5	4	4	5	6	6	6	7	8
Preston	7	6	6	6	9	9	8	7	7	7	7	5	4
Kanawha	6	7	8	7	6	7	10	10	9	9	11	10	.....
Randolph .....	.....	.....	.....	12	7	6	6	6	5	5	5	6	5
Monongalia	9	9	11	8	11	8	9	8	8	8	8	8	6
Harrison	10	10	9	10	10	10	7	11	11	10	10	12	11
Barbour .....	.....	11	9	11	8	11	11	9	10	10	9	9	9
Raleigh	8	8	7	10	.....	.....	.....	.....	.....	.....	.....	13	.....
Upshur .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	11	.....
Taylor .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	.....	10

NUMBER OF COKE OVENS NOT IN USE—1909.

COUNTY.	No. of Coke Ovens Not in Use.	Field in which Located.
Brooke	6	Upper Monongahela.
Marion	829	Upper Monongahela.
Harrison	200	Upper Monongahela.
Upshur	36	Upper Monongahela.
Barbour	155	Upper Monongahela.
Monongalia	141	Upper Monongahela.
Preston	440	Upper Monongahela.
Taylor	18	Upper Monongahela.
Randolph	246	Upper Monongahela.
Tucker	531	Upper Potomac.
Fayette	1,331	New River.
Kanawha	90	New River.
Raleigh	55	New River.
Mercer	1,029	Pocahontas.
McDowell	5,011	Pocahontas.
Total	10,118	.....

NUMBER OF COKE OVENS NOT IN USE—1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in use.
<i>Brooke County.</i>		
La Belle Iron Works.....	La Belle Shaft	6
Totals		6
<i>Marion County.</i>		
Fairmont Coal Co	Murray	96
Fairmont Coal Co	Montana	134
Fairmont Coal Co	Shaft	36
Fairmont Coal Co	New England	94
Fairmont Coal Co	Gaston	89
Fairmont Coal Co	Monongah No. 6	162
Fairmont Coal Co	Monongah No. 8	79
Fairmont Coal Co	Hutchinson	50
Georges Creek Coal & Iron Co	Chatham Shaft	12
Federal Coal & Coke Co	Federal	60
Virginia-Pittsburg Coal & Coke Co	Kingmont	17
Total		829
<i>Harrison County.</i>		
Fairmont Coal Co	Enterprise	60
Fairmont Coal Co	Gypsy	40
Fairmont Coal Co	Meadowbrook	50
Fairmont & Baltimore Coal & Coke Co	Fairmore	30
Hutchinson Fuel & Supply Co	Nos. 1 & 2	20
Total		200
<i>Upshur County.</i>		
Buckhannon River Coal Co	Florence	36
Total		36
<i>Barbour County.</i>		
Meriden Coal Mining Co	Nos. 1, 2 & 4	50
Miller Coal & Coke Co	Sara	13
Davis Colliery Co	No. 4	51
Midland Coal & Coke Co	Midland	41
Total		155
<i>Monongalia County.</i>		
Opekiska Coal & Coke Co	Opekiska	20
Fairmont Coal Co	Beechwood	46
Connellsville Basin Coke Co	Nos. 1, 2 & 3	75
Total		141
<i>Preston County.</i>		
The Austen Coal & Coke Co	No. 1	85
Gorman Coal & Coke Co	No. 2	40
Hamilton Coal & Coke Co	Newburg Shaft	90
Orr Coal & Coke Co	Vukan	50
Manufacturers Coal & Coke Co	No. 2	64
Elkins Coal & Coke Co	Bretz	92
Preston County Coke Co	Cascade	19
Total		440
<i>Taylor County.</i>		
Winona Coal & Coke Co	Winona No. 1	18
Total		18
<i>Randolph County.</i>		
Davis Coal & Coke Co	Weaver No. 1	121
Davis Colliery Co	Coalton No. 1	100
Davis Colliery Co	Harding No. 3	25
Total		246
<i>Tucker County.</i>		
Davis Coal & Coke Co	Coketon No. 37	342
Cumberland Coal Co	No. 5	125

NUMBER OF COKE OVENS NOT IN USE—1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in use.
<i>Tucker County.</i> —Con't.		
Davis Coal & Coke Co	Thomas No. 34	8
Davis Coal & Coke Co	Coketon No. 36	56
Total		531
<i>Fayette County.</i>		
Sunday Creek Co	No. 115	66
The Columbus Iron & Steel Co.	No. 1	4
The Mount Carbon Co., Ltd	Vulcan	108
Great Kanawha Colliery Co.	Edwards	39
Loup Creek Colliery Co	Ansted & Eagle	212
The Gauley Mountain Coal Co.	Nova Scotia	42
Gaymont Colliery Co	Gaymont	36
Sunbury Coal & Coke Co	Sunny Side	18
The Fayette Coal & Coke Co	Fayette	12
Fire Creek Coal & Coke Co	Fire Creek	48
Greenwood Coal & Coke Co	Greenwood	45
Quinnimont Coal Co	Big Q	37
The Low Moor Iron Co., of Virginia ..	Kaymoor No 1	22
Elverton Coal & Coke Co	Elverton	51
New River & Pocahontas Consolidated Coal Co.	Minden No. 1	100
New River & Pocahontas Consolidated Coal Co.	Minden No. 2	100
New River & Pocahontas Consolidated Coal Co.	Minden No. 5	100
New River Collieries Co	Brooklyn	1
New River Collieries Co	Rush Run	52
New River Collieries Co	Sun Nos. 1, 2 & 3	95
Harvey Coal & Coke Co	Nos. 1 & 2	28
Collins Colliery Co	Nos. 1 & 2	50
Macdonald Colliery Co	Macdonald	40
Turkey Knob Coal Co	Turkey Knob	25
Total		1,331
<i>Kanawha County.</i>		
Cannelton	Cannelton No. 2	90
Total		90
<i>Raleigh County.</i>		
Raleigh Coal & Coke Co	Nos. 1, 2 & 3	55
Total		55
<i>Mercer County.</i>		
Mill Creek Coal & Coke Co	Coaldale	90
Mill Creek Coal & Coke Co	E. & W. Mill C'k & Tug River ..	100
Buckeye Coal & Coke Co	North & South	132
Booth-Bowen Coal & Coke Co	Booth-Bowen	107
Pocahontas Consolidated Collieries Co., Inc.	Caswell, Hemlock & Elkhorn ..	191
Louisville Coal & Coke Co	Louisville & Goodwill	175
Crystal Coal & Coke Co	Crystal	30
American Coal Co. of Alleghany Co ..	Pinnacle N. & S.	200
The Thomas Coal Co	Thomas	4
Total		1,029
<i>McDowell County.</i>		
Algoma Coal & Coke Co	Piney & Northfork	136
Elk Ridge Coal & Coke Co	Elk Ridge	110
Gilliam Coal & Coke Co	Gilliam	137
Indian Ridge Coal & Coke Co	Indian Ridge	100
Roanoke Coal & Coke Co	Roanoke	67
Arlington Coal & Coke Co	Arlington	98
Greenbrier Coal & Coke Co	Greenbrier	132
McDowell Coal & Coke Co	McDowell	130
Ashland Coal & Coke Co	Ashland & Monitor	360
Pocahontas Consolidated Collieries Co., Inc.	Cherokee	128
Pocahontas Consolidated Collieries Co., Inc.	Lick Branch	58
Pocahontas Consolidated Collieries Co., Inc.	Delta	60
Pocahontas Consolidated Collieries Co., Inc.	Shamokin	229
Pocahontas Consolidated Collieries Co., Inc.	Norfolk & Angle	139
Elkhorn Coal & Coke Co	Elkhorn	90
New River & Pocahontas Coal Co	No. 1	100
United States Coal & Coke Co	No. 1	325

NUMBER OF COKE OVENS NOT IN USE—1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in use.
<i>McDowell County.—Con't.</i>		
United States Coal & Coke Co.	No. 2	210
United States Coal & Coke Co.	No. 3	35
United States Coal & Coke Co.	No. 4	2
United States Coal & Coke Co.	No. 5	2
United States Coal & Coke Co.	No. 6	58
United States Coal & Coke Co.	No. 7	10
United States Coal & Coke Co.	No. 8	13
Page Coal & Coke Co.	Nos. 1, 2 & 3	370
Middle States Coal & Coke Co.	No. 11	88
The Tidewater Coal & Coke Co.	Tidewater	250
Bottom Creek Coal & Coke Co.	Bottom Creek	147
Peerless Coal & Coke Co.	Peerless	154
The Empire Coal & Coke Co.	Empire	130
Shawnee Coal & Coke Co.	Shawnee	113
Eureka Coal & Coke Co.	Eureka	100
Pulaski Iron Co.	Pulaski Nos. 1 & 2	40
Keystone Coal & Coke Co.	Keystone Nos. 1 & 2	154
Lynchburg Coal & Coke Co.	Lynchburg	113
Powhatan Coal & Coke Co.	Powhatan	137
Upland Coal & Coke Co.	No. 1	132
Honston Coal & Coke Co.	Nos. 1 & 2	60
Crozer Coal & Coke Co.	Nos. 1 & 2	254
Turkey Gap Coal & Coke Co.	Turkey Gap	40
Total		5,011

PRODUCTION OF COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Coke Plants Reported.	Total Tons of Coal Used in Ovens. (Tons of 2,000 lbs.)	Total Tons of Coke Produced. (Tons of 2,000 lbs.)	Percentage of Yield.	Total No. of Coke Ovens Reported.	Average No. of Coke Ovens Operating during the Year.		Average No. of Days Ovens were Operated.	Number of Men Employed on Ovens.
						In County	Per Plant.		
Brooke.....	1	111,404	65,213	58.54	9	209	37	152	72
Marion.....	16	466	275	61.66	9				
Harrison.....	5								
Cusshur.....	5								
Barbour.....	4	44,886	27,293	60.64	36				
Monongalia.....	4	162,876	117,254	71.98	227	72	43	180	24
Preston.....	8	277,803	175,915	63.32	416	275	136	238	86
Taylor.....	1	8,839	5,302	60.00	993	533	109	182	10
Randolph.....	4	182,093	128,401	70.28	30	12	12	225	3
Tucker.....	5	196,838	116,920	59.46	246	274	94	313	95
Fayette.....	23	899,008	525,454	58.39	331	242	35	290	110
Kanawha.....	1				1,331	1,550	104	259	519
Raleigh.....					190				
Mercer.....	9	389,251	229,681	58.69	55	817	84	221	309
McDowell.....	40	2,879,156	1,733,479	60.29	5,011	5,144	141	270	2,368
Totals.....	122	5,453,298	3,115,797	60.46	19,266	9,148	95	197	3,003

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Tons of Coal Used in Ovens (Tons of 2,000 lbs.)	Tons of Coke Produced (Tons of 2,000 lbs.)	Number of Coke Ovens Reported.	Average No. Ovens Used Per Plant.	Average No. Days Ovens were Operated.
<i>Marion County.</i>						
Fairmont Coal Co.	Murray	158	95			
Fairmont Coal Co.	Montana	5,211	3,127	150	16	62
Fairmont Coal Co.	Shaft			36		
Fairmont Coal Co.	New England.			94		
Fairmont Coal Co.	Gaston	376	222	80		
Fairmont Coal Co.	Monongah No. 2	16,183	9,357			
Fairmont Coal Co.	Monongah No. 6	27,476	15,312	222	60	173
Fairmont Coal Co.	Monongah No. 8	17,878	9,617	90	20	212
Fairmont Coal Co.	Anderson	46	27			
Fairmont Coal Co.	Hightland	523	308			
Fairmont Coal Co.	Middleton	834	492			
Fairmont Coal Co.	Chiefton	165	97			
Fairmont Coal Co.	Hutchinson	46	27			
Georges Creek Coal & Iron Co.	Chatham	21,525	12,812	75	63	226
Federal Coal & Coke Co.	Federal			60		
The Virginia & Pittsburg Coal & Coke Co.	Kingmont	20,983	13,480	67	50	200
Totals		111,404	65,213	892	37	152
<i>Harrison County.</i>						
Fairmont Coal Co.	Enterprise	466	275	60		
Fairmont Coal Co.	Gypsy			40		
Fairmont Coal Co.	Meadowbrook			50		
Fairmont & Baltimore Coal & Coke Co.	Fairmore			20		
Hutchinson Fuel & Supply Co.	Nos. 1 and 2			20		
Totals		466	275	200		
<i>Upsher County.</i>						
Buckhamner River Coal Co.	Florence			36		
Total				36		
<i>Barbour County.</i>						
Meriden Coal Mining Co.	Meriden Nos. 1, 2 & 4			50		
Miller Coal & Coke Co.	Sara	3,528	2,145	25	12	107
Davis Colliery Co.	No 4			51		

Midland Coal & Coke Co	Midland	41,358	25,058	101	60	195
Totals		44,866	27,203	227	43	180
<i>Monongalia County.</i>						
Opokiska Coal & Coke Co	Opokiska			20		
Fairmont Coal Co	Beechwood	70,167		46		
Elkins Coal & Coke Co	Richard	92,709	42,200	150	150	207
Cornellsville Basin Coke Co	Nos. 1, 2 and 3		74,994	200	125	275
Totals		162,876	117,254	416	136	278
<i>Preston County.</i>						
The Austen Coal & Coke Co	No. 1	93,489	57,704	250	165	208
Hamilton Coal & Coke Co	Newburg Shaft			90		
Gorman Coal & Coke Co	No. 2			40		
Orr Coal & Coke Co	Vulcan	11,509	6,851	100	50	80
Manufacturers Coal & Coke Co	Victoria No. 2			64		
Elkins Coal & Coke Co	Bretz	41,328	27,108	267	175	116
Elkins Coal & Coke Co	Masontown	52,793	31,155	80	80	213
Preston County Coke Co	Cascade	78,684	52,917	102	83	306
Totals		277,803	175,915	983	109	183
<i>Taylor County.</i>						
Winona Coal & Coke Co	No. 1	8,839	5,302	30	12	225
Totals		8,839	5,302	30	12	225
<i>Randolph County.</i>						
Davis Coal & Coke Co	Weaver No. 1	34,850	22,914	235	114	365
Davis Coal & Coke Co	Weaver No. 2	23,064	15,173			
Davis Colliery Co	Coalton No. 1	78,205	57,793	100	100	
Davis Colliery Co	Harding No. 3	46,474	32,521	85	60	214
Totals		182,693	128,401	320	94	313
<i>Tucker County.</i>						
Cumberland Coal Co	Nos. 4 & 5	10,117	6,022	145	20	156
Davis Coal & Coke Co	Thomas No. 23 and					
Davis Coal & Coke Co	Pendleton Run	32,502	19,236	114	106	365
Davis Coal & Coke Co	Thomas No. 34	18,857	11,150			
Davis Coal & Coke Co	Coketon No. 35	28,689	17,997			
Davis Coal & Coke Co	Coketon No. 36	21,833	10,995			
Davis Coal & Coke Co	Coketon No. 37	84,828	51,581	438	116	365
Totals		198,826	116,920	717	95	200
<i>Fayette County.</i>						
Sunday Creek Co	No. 111	69,402	41,007	102	102	240

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30TH, 1902.

NAME OF COMPANY.	NAME OF MINE.	Tons of Coal Used in Ovens (Tons of 2,000 lbs.)	Tons of Coke Pro- duced (Tons of 2,000 lbs.)	Number of Coke Ovens Re- ported.	Average No. Ovens Used Per Plant.	Average No. Days Ovens were Operated.
<i>Fayette County.—Con't.</i>						
Sunday Creek Co.	No. 112	114,940	56,080	200	200	240
Sunday Creek Co.	No. 115	86,000	55,442	165	100	200
The Columbus Iron & Steel Co.	No. 1	55,970	31,082	84	80	201
The Mount Carlton Co., Ltd.	Vulcan	45,782	27,989	202	94	200
Great Kanawha Colliery Co.	Edwards & Diehl	4,001	2,027	40	30	90
Lump Keok Colliery Co.	Adair & Eagle	128,297	77,331	505	283	265
The Ganley Mountain Coal Co.	Nova Scotia	46,543	28,004	152	110	300
Gaymont Colliery Co.	Gaymont	.....	.....	36	.....	.....
Sunbury Coal & Coke Co.	Sunny Side	.....	.....	18	.....	.....
The Fayette Coal & Coke Co.	Fayette	.....	.....	12	.....	.....
Fire Creek Coal & Coke Co.	Fire Creek	14,500	11,582	98	50	200
New River & Pocahontas Consolidated Coal Co.	Minden No. 5	.....	.....	100	.....	.....
Greenwood Coal Co.	Greenwood	.....	.....	45	.....	.....
The Low Moor Iron Co. of Virginia	Kaymoor No. 1	80,040	48,000	147	125	285
Elverton Coal & Coke Co.	Elverton	.....	.....	51	.....	.....
The New River Collieries Co.	Brooklyn	29,583	17,610	64	63	250
The New River Collieries Co.	Rush Run	67,208	38,300	92	40	280
The New River Collieries Co.	Sun Nos. 1, 2 & 3	58,752	30,800	120	75	175
Harvey Coal & Coke Co.	Nos. 1 and 2	37,819	22,175	98	70	.....
Collins Colliery Co.	Nos. 1 and 2	24,080	15,285	100	50	315
Maconald Colliery Co.	Maconald	31,933	17,107	120	80	335
Turkey Knob Coal Co.	Turkey Knob	22,380	13,333	100	75	.....
Totals	.....	899,068	525,154	2,681	104	250
<i>Kanawha County.</i>						
Cannelton Coal Co.	No. 2	.....	.....	* 90	.....	.....
Total	.....	.....	.....	90	.....	.....
<i>Mercer County.</i>						
Mt. Creek Coal & Coke Co.	Coaldale	14,561	9,587	140	50	219
Mt. Creek Coal & Coke Co.	East, West and Tug River	51,345	32,092	215	115	223
Buckeye Coal & Coke Co.	North and South	29,722	18,088	172	40	145
Booth-Bowen Coal & Coke Co.	Booth-Bowen	35,756	19,941	172	70	140
Pocahontas Consolidated Collieries Co., Inc.	Cassell, Hemlock & Elklorn	15,333	8,550	231	40	75
Louisville Coal & Coke Co.	Louisville & Goodwill	34,998	20,825	225	50	300

* Not in use.

Totals		48,386	26,485	110	110	220
Crystal Coal & Coke Co.	Crane Creek Nos. 1 & 2	48,386	26,485	110	110	220
American Coal Co., of Allegany county	Pinnacle, S. & N.	94,563	47,339	290	290	580
The Thomas Coal Co.	Thomas.	61,624	37,144	146	146	295
Totals		204,573	110,968	546	546	1,091
<i>McDowell County.</i>						
Algoma Coal & Coke Co.	Piney & North Fork	40,410	22,780	225	89	300
Elk Ridge Coal & Coke Co.	Elk Ridge.	40,151	22,465	200	80	280
Gilliam Coal & Coke Co.	Gilliam.	41,051	22,908	217	80	297
Indian Ridge Coal & Coke Co.	Indian Ridge	35,739	21,661	200	100	300
Roanoke Coal & Coke Co.	Roanoke	38,878	25,739	130	63	193
Arlington Coal & Coke Co.	Arlington	34,463	19,231	138	60	198
Greenbrier Coal & Coke Co.	Greenbrier	39,722	23,645	200	68	268
McDowell Coal & Coke Co.	McDowell	32,889	21,926	200	70	270
Ashland Coal & Coke Co.	Ashland & Monitor	17,305	10,301	410	50	460
Pocahontas Consolidated Collieries Co., Inc.	Cherokee	15,613	8,710	128	100	228
Pocahontas Consolidated Collieries Co., Inc.	Lick Branch	13,700	7,650	120	60	180
Pocahontas Consolidated Collieries Co., Inc.	Delta	63,134	35,230	289	140	429
Pocahontas Consolidated Collieries Co., Inc.	Shamokin	129,906	112,440	514	375	889
Pocahontas Consolidated Collieries Co., Inc.	Shamokin & Angle	44,145	29,174	170	80	250
Elkhorn Coal & Coke Co.	Elkhorn	81,450	48,488	200	100	300
New River & Pocahontas Consolidated Coal Co.	No. 1	6,831	3,504	550	25	575
United States Coal & Coke Co.	No. 2	295,664	176,126	710	500	1,210
United States Coal & Coke Co.	No. 3	171,320	106,145	300	265	565
United States Coal & Coke Co.	No. 4	140,684	85,723	200	207	407
United States Coal & Coke Co.	No. 5	65,557	42,614	102	100	202
United States Coal & Coke Co.	No. 6	186,372	117,971	308	250	558
United States Coal & Coke Co.	No. 7	229,250	144,500	350	240	590
United States Coal & Coke Co.	No. 8	32,250	17,207	172	130	202
Pago Coal & Coke Co.	Nos. 1, 2 & 3	88,053	51,920	500	130	630
Middle States Coal & Coke Co.	No. 11	32,719	22,105	310	62	372
The Tidewater Coal & Coke Co.	Tidewater	29,627	19,751	300	50	350
Bottom Creek Coal & Coke Co.	Bottom Creek	37,306	24,983	220	73	293
Peerless Coal & Coke Co.	Peerless	56,083	27,872	291	100	391
The Empire Coal & Coke Co.	Empire	49,060	31,580	250	120	370
Shawnee Coal & Coke Co.	Shawnee	32,957	17,617	188	75	263
Eureka Coal & Coke Co.	Eureka	38,629	21,185	200	100	300
Pulaski Iron Co.	Pulaski Nos. 1 & 2	137,408	87,828	290	220	510
Keystone Coal Co.	Keystone Nos. 1 and 2	31,808	20,221	219	65	284
Lynchburg Coal & Coke Co.	Lynchburg	45,892	25,755	213	100	313
Powhatan Coal & Coke Co.	Powhatan	45,635	28,333	225	88	313
Upland Coal & Coke Co.	No. 1	51,629	30,733	232	100	332
Houston Coal & Coke Co.	Nos. 1 & 2	70,496	37,498	230	170	400
Crozer Coal & Coke Co.	Nos. 1 & 2	61,800	41,153	354	100	454
Turkey Gap Coal & Coke Co.	Turkey Gap	133,588	68,157	240	200	440
Totals		2,879,156	1,733,479	10,155	141	10,296

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Mines Pro- ducing Coal.	Average No. of Days Mines were Operated.	Number of Coke Plants Operated.	Average No. of Days Ovens were Operated.	Employees.					Outside.		Sum Total.
					Inside.				Total.			
					Pick Miners.	Machine Miners.	Machine Runners and Help- ers.	Labo- rers.		Labo- rers.	Coke Workers.	Total.
Brooke	6	207			123	475	73	94	745	80		845
Hancock	2	253			16	50	8	23	97	10		107
Marion	26	214	5	191	1,065	1,001	246	947	3,250	500	72	3,922
Marshall	6	138			24	223	52	60	339	54		393
Ohio	7	190			58	151	14	41	264	29		293
Harrison	56	160			1,000	1,143	395	834	3,282	634		3,916
Lewis	1	80			35	35	8	7	50	5		55
Upshur	4	257			50	103	8	10	163	12		115
Barbour	16	201	2	180	278	231	57	179	745	108	24	877
Monongalia	8	217	2	238	239	45	13	71	368	84	90	542
Preston	17	173	5	183	672	250	41	231	1,194	113	116	1,423
Taylor	13	194	1	225	317	91	20	91	519	101	3	623
Grant	3	218			37	90	32	54	213	36		249
Mineral	22	199			646	33	6	87	772	107		879
Randolph	7	155	4	313	531	60	10	81	642	96		598
Tucker	13	224	2	348	719	76		295	1,100	146	110	1,356
Braxton	2	170			78			13	91	9		100
Gilmer	1				25			2	28	2		30
Mason	7	163			150	45	8	34	237	34		271
Putnam	10	258			604	20	4	171	799	206		1,005
Clay	2	180			46	28	9	8	91	11		102
Fayette	133	199	17	257	5,124	2,007	440	2,639	10,900	1,453	519	12,861
Kanawha	109	158			1,088	2,836	649	1,394	5,967	955		6,922
Boone	4	191			16	20	6	4	30	3		33
Nicholas	5	154			46	20		22	94	18		112
Greenbrier	1				38			7	45	6		51
Raleigh	35	186			1,394	314	62	639	2,429	380		2,819
Mercer	29	202	9	320	1,442	48	22	722	2,274	380	369	2,933
McDowell	169	211	39	297	5,989	1,058	212	3,402	10,661	1,650	2,268	14,589
Lancro	3	273			20	45	5	14	84	15		99
Logan	23	253			31	916	178	461	1,586	379		1,965
Mingo	32	181			245	785	273	419	1,722	331		2,053
Wayne	1				41			16	57	4		61
Totals	713	192	87	263	22,583	12,141	2,750	13,093	50,567	8,015	3,007	62,189
Totals for 1908	721	211	103	216	21,728	11,627	2,750	12,833	48,938	7,555	3,904	60,297

Federal Coal & Coke Co	45	97	28	125	295	40	.....	40	.....	392	.....	17
The Va. & Pittsburgh Coal & Coke Co.	210	35	6	35	245	34	10	.....	.....	310	50	22
Parker Run	.....	35	.....	5	46	6	.....	.....	.....	52	.....	6
Harry B. Coal Co.	35	.....	.....	12	47	4	.....	.....	.....	300	.....	4
Kilgarn No. 1	20	.....	.....	5	25	7	.....	.....	.....	171	.....	2
Pittsburg Steam Coal Co.	15	.....	.....	4	19	3	.....	.....	.....	32	.....	2
Catawba Coal Co.	8	.....	.....	1	9	2	.....	.....	.....	60	.....	1
Dakota	7	.....	.....	.....	7	4	.....	.....	.....	11	.....	.....
Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	.....	.....
Totals	1,065	1,001	246	947	3,260	500	72	682	3,922	214	191	359
<i>Marshall County.</i>												
Hitchman Coal & Coke Co.	.....	150	16	20	186	20	.....	20	206	144	.....	11
Boggs Run	10	.....	.....	6	16	3	.....	3	19	100	.....	3
Wheeling Steel & Iron Co	14	28	4	15	61	12	.....	12	73	200	.....	3
Glendale	.....	14	4	6	24	6	.....	6	30	40	.....	2
Shaft Mine	.....	19	6	7	32	6	.....	6	38	.....	.....	4
Bituminous No. 1	.....	12	2	6	20	7	.....	7	27	60	.....	.....
Totals	24	223	32	60	339	54	.....	54	383	138	.....	23
<i>Ohio County.</i>												
Richland Coal Co.	.....	110	10	17	127	13	.....	13	150	150	.....	7
Elm Grove	5	41	4	6	56	2	.....	2	61	165	.....	3
Whitaker-Glessner Co	30	.....	.....	8	38	7	.....	7	45	300	.....	7
Reymann Brewing Co	8	.....	.....	2	10	1	.....	1	11	300	.....	3
J. S. Creighton	.....	4	.....	4	4	1	.....	1	5	167	.....	.....
Peter Storch & Sons	5	.....	.....	.....	5	2	.....	2	7	.....	.....	.....
La Belle Iron Works	10	.....	.....	4	14	.....	.....	.....	14	300	.....	4
Totals	58	151	14	41	264	29	.....	29	263	190	.....	24
<i>Harrison County.</i>												
Clarksburg Fuel Co.	7	18	5	14	44	10	.....	10	54	94	.....	7
Clarksburg Fuel Co.	62	60	8	55	185	35	.....	35	220	157	.....	21
Clarksburg Fuel Co.	30	35	8	22	95	14	.....	14	109	121	.....	15
Dixie	5	.....	.....	2	7	1	.....	1	8	220	.....	2
Two Lick	23	13	6	15	57	10	.....	10	67	121	.....	7
Clarksburg Fuel Co.	6	18	14	13	51	13	.....	13	64	120	.....	11
Clarksburg Fuel Co.	2	6	2	6	16	10	.....	10	26	130	.....	3
Enterprise	43	60	21	68	201	49	.....	49	250	157	.....	23
Fairmont Coal Co	21	28	10	32	91	21	.....	21	112	109	.....	10
Fairmont Coal Co	3	30	4	20	57	12	.....	12	69	135	.....	7
Fairmont Coal Co	12	35	10	35	112	10	.....	10	131	105	.....	7
Fairmont Coal Co	10	42	10	31	93	18	.....	18	111	126	.....	13
Fairmont Coal Co	10	40	24	30	104	31	.....	31	135	112	.....	8
Fairmont Coal Co	15	30	4	25	74	15	.....	15	89	101	.....	8
Fairmont Coal Co	3	11	4	6	24	10	.....	10	34	89	.....	4
Fairmont Coal Co	8	22	6	16	52	12	.....	12	64	108	.....	8
Fairmont Coal Co	29	20	8	20	77	20	.....	20	97	111	.....	12

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.					No. of Horses and Mules Inside.				
		Inside.			Outside.		Avg. No. of Days Mines were Op-erated.	Avg. No. of Days Ovens were Op-erated.	Average No. Ovens in Operation per Plant.	Sum Total.	
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Coke Workers.					Total.
<i>Harrison County.—Cont.</i>											
Fairmont Coal Co.	Columbia	24	26	2	25	38	38	106	106	106	10
Fairmont Coal Co.	Robinson Run	15	18	4	27	29	29	36	36	36	3
Fairmont Coal Co.	Reynoldsville	15	18	4	27	29	29	36	36	36	3
Fairmont Coal Co.	Lynch	13	16	4	23	14	14	100	100	100	3
Fairmont Coal Co.	West Fork	13	16	4	23	14	14	100	100	100	3
Pittsburg & Fairmont Fuel Co.	Perry 1 and 2	23	31	8	12	74	74	21	21	21	2
Pittsburg & Fairmont Fuel Co.	Coaling Station	4	18	4	12	33	33	6	6	6	6
Pittsburg & Fairmont Fuel Co.	Pooz	10	13	5	12	43	43	13	13	13	6
Pittsburg & Fairmont Fuel Co.	Lucas	6	14	6	9	35	35	5	5	5	5
Virginia-Maryland Coal Corporation.	Willard No. 1	10	25	12	20	67	67	11	11	11	14
Cook Coal & Coke Co.	Gilard No. 1	6	23	4	12	45	45	15	15	15	6
Cook Coal & Coke Co.	Gilard No. 1A	14	12	2	6	20	20	15	15	15	3
Central Fairmont Coal Co.	Harold	41	43	5	18	80	80	7	7	7	3
Vincent Coal Co.	Snake Hill	40	40	1	6	43	43	6	6	6	5
Haywood Coal Mining Co.	Grasselli	40	40	1	6	43	43	6	6	6	5
Meadowbrook Coal & Coke Co.	Monroe	15	50	14	18	97	97	15	15	15	11
Harrison County Coal Co.	Eric	5	7	2	5	11	11	1	1	1	5
W. B. Guntion Coal Co.	Overholt	5	10	4	5	24	24	1	1	1	30
Lambert Run Coal Co.	Overholt and Phoenix	20	20	12	2	21	21	2	2	2	14
Hero Coal & Coke Co.	Clauson	20	20	12	2	21	21	2	2	2	24
Blue Ridge Coal Co.	Hero	5	18	4	6	46	46	4	4	4	209
Rose Bud Coal Co.	Thompson	5	18	4	6	46	46	4	4	4	50
Monroe Colliery Co.	Roseland	15	20	4	7	31	31	8	8	8	252
National Coal Co.	Sylvester	22	22	5	5	20	20	22	22	22	290
Fayette Coal Co.	National	52	52	5	5	27	27	13	13	13	30
Short Line Coal Co.	Dela	25	25	24	24	76	76	30	30	30	275
Fairmont & Balto. Coal & Coke Co.	Fairmore	34	34	11	11	48	48	5	5	5	180
Madeira-Hill-Clark Coal Co.	Waldo	10	52	12	12	120	120	16	16	16	200
Madeira-Hill-Clark Coal Co.	New Chiefly'n & Randolph	25	70	16	26	122	122	34	34	34	180
Southwestern Coal Co.	Miller Nos. 1 and 2	15	25	4	4	29	29	5	5	5	194
Washington Fuel Co.	Miller Nos. 1 and 2	15	25	4	4	29	29	5	5	5	95
						18	18	3	3	3	28

O'Gara Coal Mining Co.....	50	10	10	70	8	200	78	8	9
Pitcairn Coal Co.....	19	6	22	88	18	18	103	18	10
Marshall Coal Co.....	40	10	35	125	10	10	135	10	10
Cook & Hart Coal Co.....	30	.....	.....	30	2	2	32	2	3
Hutchinson Fuel & Supply Co.....	8	18	32	110	15	15	125	15	9
Totals.....	1,000	305	834	3,282	634	634	3,916	634	349
<i>Lewis County.</i>									
Jacksonville Coal & Coke Co.....	35	8	7	50	5	5	80	5	5
Totals.....	35	8	7	50	5	5	80	5	5
<i>Upshur County.</i>									
Red Rock Fuel Co.....	15	8	4	62	8	8	70	8	.....
Newcomer.....	20	4	4	24	2	2	26	2	2
Buckhannon River Coal Co.....	15	.....	2	17	2	2	19	2	2
Totals.....	50	8	10	103	12	12	115	12	4
<i>Barbour County.</i>									
Meriden Coal Mining Co.....	1	4	10	55	10	10	65	10	4
Tygart's River Coal Co.....	2	4	8	30	7	7	46	7	8
Farmont Coal Co.....	35	19	62	160	41	41	201	41	29
Laurel Creek.....	20	.....	22	22	2	2	24	2	5
The Century Coal Co., of W. Va.	59	18	45	199	18	18	217	18	17
The Century Coal Co., of W. Va.	51	8	15	69	7	7	76	7	10
Grafton Fuel Co.....	20	.....	5	33	2	2	35	2	5
Grafton Fuel Co.....	30	.....	3	33	2	2	35	2	3
Davis Coal & Coke Co.....	40	.....	11	51	6	6	57	6	6
Miller Coal & Coke Co.....	15	.....	3	18	3	3	25	3	3
Davis Colliery Co.....	2	.....	3	2	1	1	3	1	2
Midland Coal & Coke Co.....	25	4	12	41	6	6	67	6	6
Luella Coal & Coke Co.....	10	.....	1	11	2	2	13	2	1
Humphries Colliery Co.....	10	.....	2	12	1	1	13	1	1
Totals.....	278	57	179	745	108	108	877	108	100
<i>Monongalia County.</i>									
Opekiska Coal & Coke Co.....	24	.....	7	31	3	3	38	3	7
Farmont Coal Co.....	29	6	14	61	10	10	71	10	14
Elkins Coal & Coke Co.....	40	4	25	123	15	15	178	15	.....
Elkins Coal & Coke Co.....	3	3	7	23	3	3	26	3	.....
Sabraton No. 5.....	10	.....	16	105	48	48	197	48	6
Nos. 1, 2 & 3.....	19	.....	3	3	2	2	5	2	.....
The Great Scott Coal Co.....	22	.....	2	24	3	3	27	3	2
Grant Coal Co.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	239	13	71	308	84	84	542	84	31

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.							Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Ave. No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.	
		Inside.			Outside.								
		Pick Miners.	Machine Miners.	Machin-ists and Help-ers.	Laborers.	Total.	Coke Work-ers.	Total.					
<i>Preston County.</i>													
The Austen Coal & Coke Co.	Austen No. 1	96	12	6	21	135		36	171	208	208	165	14
The Austen Coal & Coke Co.	Austen No. 2	40	12	6	12	70			72	88			1
Hamilton Coal & Coke Co.	Newburg Shaft	3		2	10	15	8		23	200			2
Gorman Coal & Coke Co.	West End No. 1	10			12	12			12	55			10
Gorman Coal & Coke Co.	Gorman No. 2		14		12	17	6		17	125			2
Irona Coal Co.	Irona No. 2	18			3	21	4		25	175			9
Irona Coal Co.	Irona No. 1	50			13	62	5		67	175			12
Merchants Coal Co.	No. 2	40	100	12	50	202	28		230	149			13
Oakland Coal Co.	Corinth	90			5	95			97	165			15
Kingwood Coal Co.	Howesville	25	46	5	24	100	10		110	151			3
Little Coal & Coke Co.	Dixie	10				10	3		13	90			12
Orr Coal & Coke Co.	Vulcan	35	9		16	80	4	10	94	181	80	50	5
Manufacturers Coal & Coke Co.	Victoria No. 2	50			5	55			59	40			
Elkins Coal & Coke Co.	Bretz No. 2	62	25		23	112	15	30	145	116	116	175	
Elkins Coal & Coke Co.	E. C. & C. Co. No. 4	40	32		23	103	11		114	245			
Elkins Coal & Coke Co.	E. C. & C. Co. No. 6	43			8	51		15	72	298	213	80	
Preston County Coke Co.	Cascade No. 1	60			10	70	5	25	100	305	306	83	
Totals		672	250	41	231	1,194	113	116	229	1,423	173	183	97
<i>Taylor County.</i>													
Grafton Coal & Coke Co.	Sandlick	60			12	72	10		82	220			8
Pittsview Coal Co.	Benington	20	23	2	15	60	21		81	94			17
T. B. Davis	T. B. Davis	40			10	50	8		58				6
McGraw Coal Co.	New York	30	10	6	15	61	20		81	190			1
Rosemont Coal Co.	Rosemont	127			22	149	16		165	250			11
Maryland Coal Co.	Wendel 1, 2, 3, 4 and 5	5	45	6	9	65	16		81	123			9
Winona Coal & Coke Co.	Winona No. 1		5	2	3	10	5	3	8	270	225	12	4
Winona Coal & Coke Co.	Winona No. 2		3	2	1	6			18	270			1
Harrison Coal Co.	Harrison	35			3	38	2		40	300			2
East Grafton Coal Co.	East Grafton		3		3	3	1		4	220			
Johnson Bros. Coal Co.	Cecil		2	2	1	5	2		7	120			2
Totals		317	91	20	91	519	101	3	104	623	194	225	61

<i>Grant County.</i>		90	32	50	172	32	32	204	231			16
Davis Coal & Coke Co	Henry No. 22	25		4	12	2		31	25			4
Buffalo Creek Coal Co	Buffalo Creek	12			12	2		2				2
Cottage Street Coal Co	Cottage street							14				
Totals.		37	32	54	213	36	36	249	218			22
<i>Mineral County.</i>												
Davis Coal & Coke Co	No. 6	37		2	39	2		41	280			8
Davis Coal & Coke Co	Hartmansville No. 9	123		11	134	13		147	241			13
Davis Coal & Coke Co	Tyson No. 10	38		5	43	5		48	225			6
Davis Coal & Coke Co	Kittanning No. 14	51		7	58	7		62	223			2
Davis Coal & Coke Co	Kittanning No. 15	13		1	14	1		15	221			9
Davis Coal & Coke Co	Ott No. 20	36		6	42	9		51	200			4
Davis Coal & Coke Co	Montgomery Run No. 19	65		10	75	23		98	191			4
Davis Coal & Coke Co	No. 50	34		5	39	4		43	176			4
Davis Coal & Coke Co	No. 51	38		6	44	6		50	197			
Abrams Creek C. & C. Co.	Oakmont	5	33	8	52	5		57	221			4
Piedmont & Potomac C. Co.	Virginia	7		1	8	2		10	112			
Masteller Coal Co	Hampshire	46		5	51	6		57	136			5
Masteller Coal Co	New Creek								* 14			1
Smith Coal Co	Smith	40		5	45	6		51	170			1
Western Maryland Coal Co	Blaine No. 2	6		4	10	3		12	110			1
Western Maryland Coal Co	Blaine No. 3	7			7			7	110			1
Western Maryland Coal Co	Blaine No. 4	9			9			9	110			3
Gleason Coal & Coke Co	Gleason No. 2	42		6	48	6		54	200			3
Bir Vein Coal Co. of W. Va	Fourfoot	19		2	21	6		27	217			3
Denman Coal Co.	Denman No. 3	20		2	20	2		22	40			3
Glade Run Coal & Coke Co	Sarah	5		2	7	1		7	105			1
Emory Run Coal Co	Emory Run No. 1	5		1	6	1		1	120			1
Totals.		643	33	87	772	107	107	879	199			70
<i>Kandolph County.</i>												
Davis Coal & Coke Co	Weaver No. 1	90		21	111	11		150	191			12
Davis Coal & Coke Co	Weaver No. 2	65		17	82	8		103	193			10
Davis Colliery Co	Coalton No. 1	110		20	130	20		182	123			12
Davis Colliery Co	Silver No. 2	14		2	16	1		17	33			1
Davis Colliery Co	Harding No. 3	70		20	90	18		128	137			1
Davis Colliery Co	Harding No. 5	7		1	8	1		9	313			1
W. H. Greene (lessee)	Klondyke	5		1	5	1		6	155			3
Totals.		331		81	442	60	96	598	155			39
<i>Tucker County.</i>												
Cumberland Coal Co	Douglas No. 1	55		22	77	2		79	210			5
Cumberland Coal Co	Douglas Nos. 4 and 5	25		43	154	48	8	210	200			13
Davis Coal & Coke Co	Thomas 2 & 3 & Pend. R	140	76	34	194	57		221	230			18

*Hampshire miners that worked in New Creek mine.

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	EMPLOYEES.										Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Ave. No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.	
		Inside.					Outside.									
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.	Sum Total.						
<i>Tucker County.</i> —Con't.																
Davis Coal & Coke Co.	Thomas No. 25	133	.....	.....	37	170	14	.....	14	184	195	.....	.....	.....	13	15
Davis Coal & Coke Co.	Coketon No. 26	55	.....	.....	10	65	8	.....	8	73	191	.....	.....	.....	10	10
Davis Coal & Coke Co.	Thomas No. 31	54	.....	.....	40	94	7	32	39	133	335	106	.....	.....	13	15
Davis Coal & Coke Co.	Coketon No. 35	38	.....	.....	12	50	3	.....	3	53	268	.....	.....	.....	5	17
Davis Coal & Coke Co.	Coketon No. 36	130	.....	.....	30	160	12	.....	12	172	270	.....	.....	.....	17	16
Davis Coal & Coke Co.	Coketon No. 37	58	.....	.....	58	95	14	70	84	180	280	263	116	.....	16	16
Beacon Coal & Coke Co.	Beacon	29	.....	.....	8	37	11	.....	11	48	21	.....	.....	.....	5	1
Gatzmer Coal & Coke Co.	Gatzmer No. 1	2	.....	.....	1	3	.....	.....	.....	3	.....	.....	.....	.....	1	1
Totals		719	76	10	295	1,100	146	110	256	1,356	224	348	95	.....	122	122
<i>Braxton County.</i>																
Davis Colliery Co.	Bower No. 10	60	.....	.....	11	80	8	.....	8	88	170	.....	.....	.....	7	7
Davis Colliery Co.	Copen No. 11	9	.....	.....	2	11	1	.....	1	12	.....	.....	.....	.....	2	2
Totals		78	.....	.....	13	91	9	.....	9	100	170	.....	.....	.....	9	9
<i>Gilmer County.</i>																
Cosmopolitan C. & C. Co.	Gilmer	25	.....	.....	3	28	2	.....	2	30	.....	.....	.....	.....	2	2
Totals		25	.....	.....	3	28	2	.....	2	30	.....	.....	.....	.....	2	2
<i>Mason County.</i>																
Mason City Coal & Mining Co.	Klondike & Linden	65	20	.....	8	73	6	.....	6	79	235	.....	.....	.....	7	7
Consumers Coal & Mining Co.	Camden	35	.....	4	3	37	6	.....	6	43	200	.....	.....	.....	7	7
Beech Grove Coal Co.	Peach Grove	25	.....	.....	6	41	2	.....	2	43	200	.....	.....	.....	7	7
Liverpool Salt & Coal Co.	Jackson	25	25	.....	3	32	10	.....	10	42	200	.....	.....	.....	3	3
Hartford Coal & Mining Co.	Hartford	25	.....	4	5	34	10	.....	10	44	250	.....	.....	.....	3	3
Dixie Coal Works	Dixie	25	.....	.....	5	30	2	.....	2	32	65	.....	.....	.....	2	2
Totals		150	45	8	34	137	34	.....	34	271	163	.....	.....	.....	38	38
<i>Putnam County.</i>																
Plymouth Coal & Mining Co.	Plymouth	15	.....	.....	5	20	.....	.....	.....	25	227	.....	.....	.....	2	2

Plymouth Coal & Mining Co	Manilla	21	83	11	94	227	10
Plymouth Coal & Mining Co	California	19	46	10	106	297	8
Alpha Coal Mining Co	Alpha	2	19	2	12	100	1
The Otto Marquet Coal & Mining Co	Big Otto Nos. 1, 2 & 3	40	290	130	440	273	25
Black Betsey Coal & Mining Co	Nos. 1 & 2	80	248	20	288	150	20
Oak Forest Coal & Mining Co	Oak Forest	4	27	6	35	150	.....
Big Hurricane Coal Co	Hurricane	1	5	2	7	.....	.....
Totals		171	749	296	1,005	258	65
Elk River Coal & Lumber Co	Dundon	8	61	6	57	245	5
Carter Coal Co	Carter	5	30	5	35	100	3
Totals		13	91	11	92	345	8
Sunday Creek Co	No. 111	102	17	21	238	198	25
Sunday Creek Co	No. 112	115	191	25	289	228	20
Sunday Creek Co	No. 114	70	134	36	170	142	16
Sunday Creek Co	No. 115	92	170	25	234	193	20
The Columbus Iron & Steel Co	No. 1	48	24	92	125	104	23
Kanawha Gas Coal Co	Kanawha Gas	5	70	12	82	110	8
Kanawha Gas Coal Co	Eagle	10	5	3	92	100	.....
W. R. Johnson & Co	Oakland	15	30	10	70	120	8
Boomer Coal & Coke Co	No. 1	25	114	10	211	67	20
Boomer Coal & Coke Co	No. 2 North	98	84	10	275	253	21
Boomer Coal & Coke Co	No. 2 South	105	45	15	234	285	18
Boomer Coal & Coke Co	No. 3	31	116	15	227	155	22
Paint Creek Collieries Co	Hickory Camp	.....	.....	.....	.....	.....	.....
Eureka Colliery Co	Eureka No. 13	50	10	2	16	95	2
Eureka Colliery Co	Eureka No. 14	30	10	2	42	150	6
W. R. Johnson	Eagle No. 1	40	10	2	42	150	15
W. R. Johnson	Splint No. 5	3	12	.....	.....	.....	.....
W. R. Johnson	Splint No. 6	40	10	2	20	120	5
Mecca Coal & Coke Co	Mecca No. 2	40	10	2	60	136	4
Mecca Coal & Coke Co	Mecca No. 5	40	10	2	60	136	4
The Carver Bros. Co	Nos. 2 and 3	60	18	5	90	130	6
The Carver Bros. Co	No. 5 Splint	25	4	5	34	130	3
The Carver Bros. Co	Diamond	60	13	5	116	125	12
St. Clair Colliery Co	Eagle or No. 1	30	15	6	51	40	9
M. B. Coal Co	Columbia No. 5	16	5	5	28	135	6
M. B. Coal Co	Elk Ridge No. 1	60	11	5	80	163	8
M. B. Coal Co	Elk Ridge No. 2	34	6	6	50	172	8
The Mount Carbon Co., Ltd	Vulcan	50	28	15	140	140	15
Great Kanawha Colliery Co	Brewster	8	11	5	48	125	4
Great Kanawha Colliery Co	Edwards	20	3	1	30	.....	3
Great Kanawha Colliery Co	Digby	20	10	1	44	.....	6
Loup Creek Colliery Co	Absted & Eagle	224	76	45	386	248	30
Herbert Collieries	Herberton	90	105	15	120	264	14

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	EMPLOYEES.								No. of Horses and Mules Inside.				
		Inside.				Outside.								
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.					
<i>Fayette County.—Cont.</i>														
Price Hill Fuel Co.	Sherwood	40	10		17	67			6			70		
Turkey Knob Coal Co.	Turkey Knob	80	6	2	20	108			18	15		141		75
Mt. Hope C. & C. Co.	Baby	1			1	2			1			3		8
Totals		5,124	2,007	449	2,679	10,900			1,433	549	1,952	12,861	257	104
<i>Kanawha County.</i>														
Falling Rock Cannel C. Co.	Jones No. 2	20			2	22			3			3		
Queen Shoals Coal Co.	Queen Shoals	25			6	31			4			4		
Queen Coal & Coke Co.	Turner		25	4	15	44			12			36		
The Elk Coal Co.	Turner		20	6	15	41			6			47		
Pen Mar Mining Co.	Pen Mar	8				8			1			9		
The Clay Coal Co.	Bradley White Ash	42			10	52			8			60		
Mill Creek Cannel Coal Co.	Mill Creek	40			10	50			8			58		
Blue Creek Coal & Land Co.	Wills Hollow No. 1	40			8	48			5			53		
Blue Creek Coal & Land Co.	Wills Hollow No. 2		25	4	7	35			3			38		
Blue Creek Coal & Land Co.	Blakely No. 3	5	25		11	45			8			53		
Roderick Coal Co.	Roderick		35		8	51			8			59		
Acme Steam C. Co.	Acme	10			3	13			10			23		
Williams Coal Co.	Williams		10	4	2	16			5			21		
The Campbells Creek Coal Co.	No. 1		130	38	45	213			37			250		
Quincy Coal Co., Inc.	No. 1		10	2	5	17			2			19		
Quincy Coal Co., Inc.	No. 2		28	4	8	40			4			44		
Sunday Creek Co.	No. 101	13	57	8	22	110			16			126		
Sunday Creek Co.	No. 104		60	8	30	98			18			116		
Sunday Creek Co.	No. 105		100	16	35	171			27			198		
Sunday Creek Co.	No. 106		50	8	25	83			19			102		
The New Cedar Grove Coal & B. Co.	Boyd Nos. 1 & 2	5	8	4	7	24			2			26		
Kellys Creek Colliery Co.	No. 1	15	55	4	15	93			10			103		
Kellys Creek Colliery Co.	Nos. 3 & 4		110	16	32	158			13			171		
Hughes Creek Coal Co.	Hughston Nos. 2 & 3	60	90	14	25	189			20			209		
Cannelton Coal Co.	Cannelton No. 2	89	14	2	51	135			36			172		
The Marmet Coal Co.	Monach		51	21	14	86			11			97		
The Marmet Coal Co.	Butler	15	3	2	5	25			3			28		

The Marmet Coal Co	Butler No. 2	20	8	12	40	6	6	46	130	7
The Marmet Coal Co	Butler No. 5	13	8	8	27	5	5	32	10	4
Oleott Coal & Iron Co	Oleott No. 1	27	8	12	50	6	6	53	15	4
Oleott Coal & Iron Co	Oleott No. 2	20	4	10	59	7	7	66	65	7
Frank Ellison	Peerless	25	6	3	27	2	2	29	229	5
Winifrede Coal Co	South	45	6	23	94	13	13	197	.....	24
Winifrede Coal Co	North Pick & Machine	20	6	25	87	12	12	99	.....	11
Winifrede Coal Co	West	21	4	11	59	7	7	66	.....	8
Winifrede Coal Co	New Coalburg	24	8	25	58	16	16	104	.....	10
Dry Branch Coal Co	Gas	40	4	6	50	4	4	54	62	5
Dry Branch Coal Co	Coalburg	15	2	19	23	7	7	25	205	2
Dry Branch Coal Co	Belmont	40	8	8	55	7	7	63	265	1
Coalburg Colliery Co	Ronda	30	6	15	21	17	17	88	106	7
Wyatt Coal Co	Oakley	30	6	15	54	11	11	62	.....	7
Wyatt Coal Co	Berlin	26	6	15	65	15	15	83	.....	10
Wyatt Coal Co	South Horton	60	6	19	85	9	9	94	204	12
Chelcyan Fuel Co	Coalburg Station	9	2	2	11	1	1	12	40	1
Persinger Coal Co	Wilton	2	2	2	14	4	4	18	40	2
Laumont Mining Co	La Mont No. 1	8	2	10	10	.....	.....	10	227	1
Laumont Mining Co	La Mont No. 3	35	6	12	53	15	15	68	214	8
Holley & Stephenson Coal & Coke Co	Stephenson No. 2	40	8	8	56	7	7	63	.....	8
Holley & Stephenson Coal & Coke Co	Stephenson No. 5	30	4	6	46	9	9	49	.....	8
Wake Forest Mining Co	Wake Forest	40	6	10	55	7	7	49	.....	1
Carbon Coal Co	North	18	2	11	45	7	7	64	150	10
Carbon Coal Co	South	16	8	10	42	6	6	50	173	4
Carbon Coal Co	South Splint	28	6	10	44	6	6	48	145	9
Republic Coal Co	No. 1	30	6	12	60	4	4	50	.....	4
Republic Coal Co	No. 2	32	6	13	50	4	4	64	208	8
Republic Coal Co	No. 3	22	6	13	50	4	4	63	232	8
West Virginia Colliery Co	No. 1	38	6	10	44	6	6	50	202	9
West Virginia Colliery Co	No. 2	10	6	22	76	14	14	90	218	2
West Virginia Colliery Co	No. 3	13	6	6	30	4	4	34	234	11
West Virginia Colliery Co	No. 4	24	6	6	42	8	8	34	220	2
West Virginia Colliery Co	No. 5	5	4	12	42	6	6	48	200	6
Cabin Creek Consolidated Coal Co	Davis	26	4	12	42	6	6	48	200	5
Cabin Creek Consolidated Coal Co	Cherokee	24	8	16	48	8	8	56	166	5
Cabin Creek Consolidated Coal Co	Caledonia	22	12	14	51	9	9	60	148	6
Cabin Creek Consolidated Coal Co	Red Warrior	18	6	10	31	5	5	39	74	9
Cabin Creek Consolidated Coal Co	Buckeye	22	12	16	54	8	8	62	94	7
Cabin Creek Consolidated Coal Co	Empire	12	4	10	30	5	5	35	143	3
Cabin Creek Consolidated Coal Co	Black Tulp	22	10	12	44	10	10	54	96	6
Cabin Creek Consolidated Coal Co	Keystone	13	6	7	26	4	4	30	115	4
Cabin Creek Consolidated Coal Co	Acme	3	2	15	54	8	8	62	144	4
Cabin Creek Consolidated Coal Co	Shamrock	14	4	5	28	5	5	33	132	9
Cabin Creek Consolidated Coal Co	Thistle	35	10	18	61	10	10	74	101	8
Cabin Creek Consolidated Coal Co	Raccoon	6	4	13	44	7	7	51	93	7
Cabin Creek Consolidated Coal Co	Raccoon Splint	20	10	16	43	6	6	52	94	7
Cabin Creek Consolidated Coal Co	Rose	25	4	10	30	6	6	45	94	4
Cabin Creek Consolidated Coal Co	Kayford	45	8	22	73	11	11	86	249	12
Cabin Creek Consolidated Coal Co	Holly	35	13	25	83	20	20	103	189	10
Cabin Creek Consolidated Coal Co	Quarrier	18	8	15	42	8	8	50	124	8
Cabin Creek Consolidated Coal Co		23	12	18	53	7	7	60	121	12

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.						Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Average No. Ovens In Operation per Plant.	No. of Horses and Mules Inside.
		Inside.			Outside.						
		Pick Miners.	Machine Miners.	Machine Runners and Help-ers.	Labors.	Total.	Labors.					Coke Workers.	Total.	Sum Total.
<i>Kanawha County—Cont.</i>	United Gas	45	10	6	33	94	12	.....	12	106	202
Cabin Creek Consolidated Coal Co.	United Splint	22	10	6	16	44	9	.....	9	53	220
Cabin Creek Consolidated Coal Co.	Belleclare	4	19	6	15	44	8	.....	8	52	119
Cabin Creek Consolidated Coal Co.	Ruby	20	20	6	13	39	8	.....	8	47	221
Paint Creek Collieries Co.	Reynolds	68	60	6	8	74	6	.....	6	80	125
Paint Creek Collieries Co.	Knikkerbocker .....	.....	.....	.....	10	78	6	.....	6	84	125
Paint Creek Collieries Co.	Scranton	8	40	8	20	76	12	.....	12	88	150
Paint Creek Collieries Co.	Paint Creek	10	60	10	22	102	13	.....	13	115	150
Paint Creek Collieries Co.	Waconah	8	30	6	9	53	10	.....	10	63	125
Paint Creek Collieries Co.	Banner No. 1	27	6	6	8	41	9	.....	9	50	125
Paint Creek Collieries Co.	Banner No. 2	10	10	2	3	25	2	.....	2	27	125
Paint Creek Collieries Co.	Detroit	5	10	6	1	26	2	.....	2	31	114
Paint Creek Collieries Co.	Grose No. 1	20	20	4	4	31	6	.....	6	37	120
Paint Creek Collieries Co.	Grose No. 2	81	4	4	8	30	6	.....	6	36	120
Paint Creek Collieries Co.	Greenbrier No. 3	40	15	4	12	52	11	.....	11	58	120
Paint Creek Collieries Co.	Greenbrier No. 3	4	8	6	8	27	8	.....	8	37	230
The Coalburg-Kanawha C. Co.	A. Mine	5	30	8	6	49	.....	.....	.....	57	230
The Coalburg-Kanawha C. Co.	B. Mine	2	10	2	3	17	.....	.....	.....	17	119
Southwestern Splint Fuel Co.	Black Cat or Coalburg	40	40	6	10	56	10	.....	10	66	290
Equitable Coal Co.	Coalburg No. 8	10	40	10	15	75	15	.....	15	90	60
Standard Splint & Gas Coal Co.	Standard	20	40	8	15	83	17	.....	17	100	144
Imperial Colliery Co.	No. 1	25	30	6	15	76	9	.....	9	83	90
Imperial Colliery Co.	No. 3	50	50	12	14	76	9	.....	9	85	150
Chesapeake Mining Co.	Chesapeake No. 1	41	35	12	21	109	17	.....	17	126	217
Chesapeake Mining Co.	Chesapeake Nos. 2 & 3	48	41	12	23	120	21	.....	21	141	254
Montgomery Coal Co.	Hickory Nut & Upper Ck	3	4	4	20	72	18	.....	18	80	173
Morris Creek Colliery Co.	Morris Creek	45	12	4	12	25	7	.....	7	35	60
Totals .....	.....	1,088	2,836	649	1,394	5,967	955	.....	955	6,922	158
<i>Boone County:</i>	Ottawa	10	.....	.....	2	12	2	.....	2	14	90
The Coal River Co.	Ramage Nos. 1, 2 & 3	6	.....	.....	2	8	1	.....	1	9	.....
Totals .....	.....	16	.....	.....	4	20	3	.....	3	23	98

Pocahontas Cons. Collieries Co., Inc.		200	90	290	50	90	140	430	120	120	100	18
Pocahontas Cons. Collieries Co., Inc.	Lick Branch	225	90	315	50	65	115	430	175	175	60	20
Pocahontas Cons. Collieries Co., Inc.	Delta	225	90	315	50	110	160	470	175	175	160	25
Pocahontas Cons. Collieries Co., Inc.	Shamokin	325	85	310	50	200	280	550	150	240	375	45
Pocahontas Cons. Collieries Co., Inc.	Norfolk & Angle	60	8	28	20	28	28	28	175	175	80	8
Pocahontas Cons. Collieries Co., Inc.	West	20	20	80	20	20	20	100	250	365	80	12
Pocahontas Cons. Collieries Co., Inc.	Zenith Nos. 1 and 2	95	88	183	16	36	52	255	242	242	80	20
Elkhorn Coal & Coke Co.	Elkhorn	16	12	52	15	67	15	67	242	242	80	12
Mohawk Coal & Coke Co.	Mohawk	16	10	50	10	100	100	260	300	300	100	12
New River & Pocahontas Cons. C. Co.	Berwind No. 1	16	80	140	20	100	100	260	300	300	100	12
New River & Pocahontas Cons. C. Co.	Berwind No. 2	16	70	118	20	100	100	260	300	300	100	12
New River & Pocahontas Cons. C. Co.	Berwind No. 3	16	60	101	10	100	100	260	300	300	100	12
Dry Fork Mining & Investment Co.	War Creek	16	4	20	10	100	100	260	300	300	100	12
Hall Mining Co.	Hall No. 1	16	11	46	9	9	9	55	217	217	100	12
Pocahontas Domestic C. Co.	Domestic	35	11	13	1	1	1	14	16	16	100	12
War Creek Coal Co.	No. 1	10	2	12	2	2	2	14	16	16	100	12
Dry Fork Colliery Co.	Dry Fork	20	6	26	6	6	6	32	90	90	100	12
Reynolds Mining Co.	Reynolds	14	2	16	1	1	1	17	40	40	100	12
Virginia-Pocahontas Coal Co.	Nos. 1 and 1½	41	14	55	4	4	4	59	239	239	100	12
Virginia-Pocahontas Coal Co.	No. 2, East and West	28	8	36	5	5	5	41	205	205	100	12
Virginia-Pocahontas Coal Co.	Nos. 3 and 4	46	11	57	7	7	7	64	265	265	100	12
Virginia-Pocahontas Coal Co.	No. 5	28	15	50	10	10	10	60	305	305	100	12
Vaughan C. & C. Co.	Vaughan	15	10	25	4	4	4	29	114	114	100	12
Flaungan Coal Co.	No. 1	60	15	75	15	15	15	15	109	109	100	12
Premier-Pocahontas Colls. Co.	Nos. 1, 2 & 3	75	15	111	15	15	15	127	206	206	100	12
Big Sandy C. & C. Co.	Big Sandy	108	30	138	25	25	25	163	210	210	100	12
Big Sandy C. & C. Co.	Marytown	30	10	70	10	10	10	80	245	245	100	12
Twin Branch Mining Co.	Twin Branch	15	15	35	5	5	5	40	233	233	100	12
Maier Coal & Coke Co.	Maier Nos. 1 & 2	20	15	35	5	5	5	40	233	233	100	12
J. B. B. Collieries Co.	J. B. B. No. 1	30	10	70	10	10	10	80	245	245	100	12
J. B. B. Collieries Co.	J. B. B. No. 2	10	10	24	4	4	4	28	168	168	100	12
J. B. B. Collieries Co.	J. B. B. No. 3	10	10	24	4	4	4	28	168	168	100	12
J. B. B. Collieries Co.	J. B. B. No. 4	10	10	24	4	4	4	28	168	168	100	12
J. B. B. Collieries Co.	J. B. B. No. 5	2	2	9	1	1	1	122	122	122	100	12
Superior-Pocahontas Coal Co.	No. 1	100	14	114	6	6	6	120	207	207	100	12
Superior-Pocahontas Coal Co.	No. 2	60	7	67	4	4	4	71	217	217	100	12
Superior-Pocahontas Coal Co.	Helena & Davy Crockett	30	4	34	3	3	3	37	120	120	100	12
Superior-Pocahontas Coal Co.	No. 4	10	2	14	1	1	1	15	70	70	100	12
Superior-Pocahontas Coal Co.	No. 5	6	1	7	1	1	1	8	220	220	100	12
The Pando Coal Co.	Pando	16	30	74	24	24	24	98	242	242	100	12
Atlas Pocahontas Coal Co.	Antler No. 3	15	10	12	52	6	6	58	210	210	100	12
Oregon Coal Co.	Imo & McClaren	25	25	113	20	20	20	133	200	200	100	12
Slick Rock C. Co.	Slick Rock	25	5	30	10	10	10	40	200	200	100	12
Jed Coal & Coke Co.	Jed	52	25	177	30	30	30	207	241	241	100	12
United States Coal & Coke Co.	No. 1	253	94	243	36	36	36	279	251	251	100	12
United States Coal & Coke Co.	No. 2	25	101	394	14	14	14	625	304	304	100	12
United States Coal & Coke Co.	No. 3	35	68	180	18	18	18	257	304	304	100	12
United States Coal & Coke Co.	No. 4	71	4	58	14	14	14	92	304	304	100	12
United States Coal & Coke Co.	No. 5	30	25	72	12	12	12	108	304	304	100	12
United States Coal & Coke Co.	No. 6	165	73	238	25	25	25	352	304	304	100	12
United States Coal & Coke Co.	No. 7	139	30	169	25	25	25	285	304	304	100	12

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.						Avg. No. of Days Mines were Op-erated.	Avg. No. of Days Ovens were Op-erated.	Average No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.									
		Inside.			Outside.															
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.					Coke Workers.	Total.							
<i>McDonnell County—Coal.</i>																				
United States Coal & Coke Co.	No. 8	64			36	100	9	54	63	304	139	267	211	1,660	2,268	3,928	14,589	139	1,127	
United States Coal & Coke Co.	No. 9	70			34	114	26		26	301										
United States Coal & Coke Co.	No. 10		65	10	23	98	9		9	107										
United States Coal & Coke Co.	No. 11		90	17	25	151	16		16	167										
United States Coal & Coke Co.	No. 12	10	70	10	13	105	35		35	140										
Central Pocahontas C. Co.	Anawalt		6		2	8	3		3	11										
Black Wolf Coal & Coke Co.	No. 4		5		20	63	15		15	78										
Pace Coal & Coke Co.	Nos. 1, 2 & 3	140			30	190	30	46	96	286										
Welch Coal & Coke Co.	Welch	30		4	20	60	10		10	70										
Hemphill Colliery Co.	Hemphill	24		4	20	53	3		3	56										
Middle States Coal & Coke Co.	No. 11		65	12	30	127	22	38	60	187										
Dixon-Pocahontas Fuel Co.	North	4	25	6	20	55	15		15	70										
Dixon-Pocahontas Fuel Co.	South		15	4	40	59	7		7	66										
Cirrus Coal & Coke Co.	Cirrus No. 1	45			12	57	10		10	67										
Virginia Fuel Co.	Virginia	15			5	20	6		6	26										
The King Coal Co.	King	100			40	140	20		20	180										
The Tidewater Coal & Coke Co.	Tidewater	100			40	140	20		20	180										
Bottom Creek Coal & Coke Co.	Bottom Creek	85			94	189	31		31	247										
Peerless Coal & Coke Co.	Peerless	92		2	54	146	20		20	177										
The Empire Coal & Coke Co.	Empire	125			112	237	40		40	201										
Shavnee Coal & Coke Co.	Shavnee	80			40	120	15		15	105										
Eureka Coal & Coke Co.	Eureka	100			40	140	15		15	105										
Pulaski Iron Co.	Pulaski Nos. 1 & 2	160			40	240	40		40	185										
Keystone Coal & Coke Co.	Keystone Nos. 1 and 2	120			55	175	25		25	225										
Lynchburg Coal & Coke Co.	Lynchburg	106			50	170	20		20	225										
Powhatan Coal & Coke Co.	Powhatan	120			30	150	30		30	185										
Upland Coal & Coke Co.	No. 1	115	10	4	20	140	33		33	240										
Houston Coal & Coke Co.	Nos. 1 & 2	174			60	175	20		20	213										
Crozer Coal & Coke Co.	Nos. 1 & 2	176			25	199	20		20	245										
Turkey Gap Coal & Coke Co.	Turkey Gap	175			80	202	58		58	230										
Flat Top Coal & Mining Co.	Flat Top	20			90	265	20		20	300										
Hurricane Branch C. Co.	Hurricane	10			4	24	6		6	30										
Henrietta Coal & Coke Co.	Henrietta	15			2	12	2		2	12										
Totals		5,989	1,058	212	3,402	10,661	1,660	2,268	3,928	14,589	267	211	1,660	2,268	3,928	14,589	139	1,127		

<i>Lincoln County.</i>									
Branchland Coal Co	Branchland	45	5	14	64	12	12	76	9
Kenova Coal Mining Co	Kenova	15			15	2	2	17	1
Kenova Coal Mining Co	Coalfield Station.	5			5	1	1	105	
Totals		20	5	14	84	15	15	99	10
<i>Logan County.</i>									
Stone Branch Coal Co	Nos. 1, 2, 3, 4, 5, 6, 7 & 8	6	8	10	54	10	10	64	5
Big Creek Coal Co	Big Creek	25	4	8	37	6	6	43	4
E. R. Johnson Coal Mining Co	Johnson	12	4	25	41	7	7	48	1
Draper Coal & Coke Co	Draper	7	17	20	66	8	8	74	12
H. T. Wilson Coal Co	Wilson	30	14	15	65	10	10	75	12
Fort Branch Coal Co	Fort Branch	6	6	15	24	6	6	30	7
Price Coal & Coke Co	Price	20	12	8	40	10	10	50	6
Rex Coal & Coke Co	Rex	15	10	10	35	10	10	45	4
The Logan Coal Co	Logan	25	12	25	62	10	10	72	8
The Ethel Coal Co	Ethel	30	12	11	53	10	10	63	12
The Monitor Coal & Coke Co	Monitor	63	8	34	105	35	35	140	9
The Monitor Coal & Coke Co	Beechwood	24	5	10	57			57	282
The Yuma Coal & Coke Co	Yuma	25	5	15	45	5	5	50	5
The Gay Coal & Coke Co	Gay	24	6	20	50	14	14	64	12
Cora Coal & Coke Co	Cora	33	4	6	43	7	7	50	
United States Coal & Oil Co	Island Creek No. 1	171	14	68	261	100	100	361	18
United States Coal & Oil Co	Island Creek No. 2	177	16	71	268	99	99	367	21
United States Coal & Oil Co	Island Creek No. 3	52	8	30	91	14	14	105	
United States Coal & Oil Co	Island Creek No. 4	52	6	23	81	8	8	89	
United States Coal & Oil Co	Island Creek Nos. 5 & 6	63	8	37	108	10	10	118	
Totals		31	178	461	1,586	379	379	1,965	135
<i>Mingo County.</i>									
Pearl Coal Mining Co	Haggerty	20	3	4	27	5	5	32	8
Naugatuck Coal Co	Blocton	30	12	25	67	7	7	74	4
Warfield Coal Co	Warfield	16	8	7	31	7	7	38	4
Lemoh Coal Co	Lemoh	12	8	10	30	8	8	38	4
Chattahoo Collieries Co	Chattahoo	30	14	21	65	10	10	75	12
The Buffalo Collieries Co	Buffalo	35	18	18	71	12	12	83	9
Lingoheiken Coal Co	Nos. 5, 6, 7 & 8	30	16	15	66	12	12	78	12
Howard Colliery Co	Howard	49	16	20	85	10	10	95	9
Winifrede Consolidated Coal Co	Sugar Tree	20	8	12	40	6	6	46	8
Williamson Coal & Coke Co	No. 3	25	12	10	47	20	20	67	6
Rawl Coal & Coke Co	Rawl No. 1	10	6	4	20	4	4	24	3
Rawl Coal & Coke Co	Rawl No. 2	6	4	4	10			200	3
White Star Mining Co	Commercial	10	10	5	25	6	6	31	4
W. T. Poole Coal Co	No. 1	15	5	5	20	3	3	51	5
Marvin Coal Co	Marvin	30	10	20	60	7	7	67	8
Red Jacket Consolidated Coal Co	Rutherford	10	8	12	60	12	12	72	12
Red Jacket Consolidated Coal Co	Logan	3	2	2	11	2	2	13	3
Red Jacket Consolidated Coal Co	Red Jacket	35	16	25	106	15	15	121	30

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.										No. of Horses and Mules Inside.	
		Inside.				Outside.							
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.	Sum Total.	Ave. No. of Days Mines were Operated.		Ave. No. of Days (Ovens were Operated.	Average No. Ovens in Operation per Plant.
<i>Mingo County.—Cont.</i>													
Red Jacket Consolidated Coal Co.	Lick Fork.....	60			15	75	10		10	85	81		
Red Jacket Consolidated Coal Co.	Grapevine.....	56			12	68	13		13	81	16		
Lynn Coal & Coke Co.	Lynn.....	13			13	32	17		17	50	15		
Thacker Coal & Coke Co.	No. 2.....	10	15		12	42	10		10	52	12		
Thacker Coal & Coke Co.	No. 3.....	4	95	5	35	152	45		45	187	8		
Thacker Fuel Co.	No. 10.....	7	24	21	25	77	12		12	89	4		
Glen Alum Coal Co.	Nos. 1 & 2.....	20	100	24	60	204	50		50	254	33		
War Eagle Coal Co.	Pappoose.....		60	8	10	78	8		8	86	15		
War Eagle Coal Co.	Mephisto.....		75	10	10	95	10		10	105	20		
Margaret Mining Co.	Margaret.....		50	16	12	58				60	17½		
Totals.....		245	785	273	419	1,722	331		331	2,053	181		
<i>Wayne County.</i>													
East Lynn Coal Co.	No. 1.....	41			16	57	4		4	61	9		
Totals.....		41			16	57	4		4	61	9		

NATIONALITIES EMPLOYED AND THEIR PERCENTAGE JUNE 30TH.
1909.

No.	NATIONALITY.	Total Number Employed	Percent- age of To- tal Nation- alities Re- ported.	Percent- age of Total No. of Em- ployes.
1	Americans (White)	24,686	47.927	39,711
2	Negro	10,550	20.474	16,964
3	Italian	6,585	12.779	10,589
4	Hungarian	3,183	6.177	5,118
5	Slavish	1,596	3.097	2,566
6	Polish	1,512	2.934	2,431
7	Russian	706	1.370	1,135
8	Austrian	631	1.225	1,015
9	Lithuanian	391	.759	629
10	English	327	.635	526
11	German	303	.588	487
12	Greek	208	.405	335
13	Roumanian	205	.398	330
14	Scotch	186	.361	299
15	Welsh	96	.186	155
16	Irish	96	.186	155
17	Syrian	81	.157	130
18	Lithvitch	64	.124	103
19	Swedish	52	.101	84
20	Belgian	17	.33	27
21	Bohemian	17	.33	27
22	French	10	.19	16
23	Danish	8	.16	13
24	Macedonian	8	.16	13
	Totals	51,528	100.000	.....
	Unknown	10,661	.....	17.142
	Grand Totals	62,189	.....	100.000

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, BY COUNTIES, FOR THE YEAR
ENDING JUNE 30TH, 1909.

COUNTY.	No. of Mines Operated.	No. of Mines Reporting.	American. (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Rumanian.	French.	Unknown.	Total Inside Employes.	Total Outside (Exclusive of Coke Yard).	Total Employes.	Grand Totals.		
Brooke.....	3	3	104	3	70	80	25				26	117	60	60				14	7	1	5		45	10		388	75	463	10	473	473		
Hancock.....	9	9	17			35	45				31	14									3		32	22			708	3,252	3,331	38	3,669	3,669	
Marion.....	26	26	1,322	117	824	250	215	71			31	14									3		38				60	344	404	48	583	583	
Marshall.....	5	5	126	3	46	36	33				2										2		38				25	265	283	28	333	333	
Ohio.....	6	6	113	6	12	11	30				2										16		228	56	11		455	3,283	403	5	3,916	3,916	
Harrison.....	46	46	1,632	132	824	242	84	30			6		176	20				14	8	2			228	56			455	3,283	403	5	3,916	3,916	
Lewis.....	1	1																									15	101	14	115	115		
Farmer.....	4	4	51	3	52																						26	101	14	115	115		
Barbour.....	17	17	288	68	178	50	42	41			4		7	10				7	1	1			19				132	745	801	24	877	877	
Montgomery.....	9	9	143	5	63	15	20																				255	426	70	46	542	542	
Preston.....	19	19	460	13	63	50	50				4		1	21	20			6	3		3		25				742	1,253	90	71	1,423	1,423	
Taylor.....	16	16	345	14	71	9	6				2		4	8	6			3		2	1		8				64	518	102	3	623	623	
Grant.....	3	3	95	13	67	48	6	44						12	6			4									1	213	36		249	249	
Mineral.....	23	23	720	16	155	4	15	4			17			1	1				6	3	2						30	774	105	96	879	879	
Randolph.....	8	8	138	15	135																						310	442	60	46	508	508	
Tucker.....	13	12	282	71	437	31	160	124			7		7	91	19				3	5	2		100				12	91	144	110	1,356	1,356	
Braxton.....	2	2	60	2	41									8														28	2	30	30		
Gilmer.....	1	1	27																									79	257	34	271	271	
Mason.....	7	7	181	8																								321	801	204	1,065	1,065	
Putnam.....	11	6	473	210																								22	91	11	102	102	
Clay.....	144	96	5,724	2,949	958	382	319	8			122		10	70	77		108	93	24	5	2		6			1,732	10,338	1,404	519	12,801	12,801		
Payette.....	223	91	4,629	626	172	154	90				44	4	40	14	68		82	43	11	8	14		25			825	5,944	978	3	6,922	6,922		
Kanawha.....	4	4																									9	20	3	23	23		
Boone.....	9	9	4																									93	19	3	112	112	
Nicholas.....	1	1	103	2																								42	9	51	51		
Greene.....	1	1	20																														
Greenbrier.....	43	24	1,062	455	137	83	67				26		1	6	1		15	15	12	61				10			798	2,429	300	91	2,819	2,819	
Raleigh.....	30	30	1,907	927	798	297	42				7		3	3	30		40							40				2,923	400	310	2,933	2,933	
Martinsburg.....	113	70	3,217	4,419	1,648	1,666	179				20		1	10	416		36	4	4	130	15	4		401			2,888	10,955	1,616	2,018	14,589	14,589	
McDowell.....	3	3	30																										84	15		99	99
Lincoln.....	29	16	923	201	102	287	63				1			23	716		3				2			44			227	1,518	347	100	1,965	1,965	
Logan.....	45	27	1,271	243	151	207	18				6										1			50			105	1,714	339	100	2,053	2,053	
Mingo.....	1	1	61																									60	1		61	61	
Totals.....	877	522	24,686	10,520	6,585	3,183	1,512	8	391	52	327	896	631	706	17	303	186	64	208	96	17	1,506	81	205	10	10,661	50,808	7,955	3,336	62,189	62,189		

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1909.

COUNTY.	Where Employed.	Americans. (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Totals.	
Brooke	Inside Outside Coke Yard	64 40	38	61 9	75 5	25							20						5		45	10			302 26	705	80			
Totals		104	38	70	80	25							20						5		45	10			388 15 1	705 97	80 10		845	
Hancock	Inside Outside Coke Yard	8 9		4	38																32									
Totals		17		4	38																32				16	97	10		107	
Marion	Inside Outside Coke Yard	933 413 6	112 5 16	717 121 16	244 6 4	211 4	71			25 1	17	60	7	13 1 1	1 1 1	1 1 1	17	190 2			190 1 2	2			616 17 15	3,252 344	631	39		
Totals		1,352	117	854	250	215	71			26	17	60	7	14	1	1	17	202			202	2			708	3,252	631	39	3,922	
Marshall	Inside Outside Coke Yard	86 40	3	46	23	34				31	14	10					1		2 1	12		19	10	1	53 7	344	49			
Totals		126	3	46	23	34				31	14	10					1		3	12		19	10	1	60	344	49		393	
Ohio	Inside Outside Coke Yard	88 25	5 1	12	11	36				3	1	33		3	1	2					38	9			23 2	265	28			
Totals		113	6	12	11	36				3	1	33		3	1	2					38	9			25	265	28		293	
Harrison	Inside Outside Coke Yard	1,161 471	117 15	760 64	218 24	84	30			5 1		155 21	20	14			14	8		2		221 7	9 2			412 23	3,283	633		
Totals		1,632	132	824	242	84	30			6		176	20	14			16				228	56	11		435	3,283	633		3,916	

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1909.

COUNTY.	Where Employed.	Americans. (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Irish.	Bohemian.	Slavish.	Syrian.	Koumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	(Grand Totals.
Randolph	Inside	111		106		4						1												220	442	60		
	Outside Coke Yard	17		5																				38				
Totals		128		155		4						1												310	442	60	598	
Tucker	Inside	210	69	278	31	164	121	3	1	6		2	84	19			3	5	2	108					1,102	144		
	Outside Coke Yard	71	4	52		4					1		4							1								
Totals		282	74	435	31	168	124	1		7		2	91	19			3	5	2	109					1,102	144	110	1,356
Braxton	Inside	52	2	11	7																			11	91	9		
	Outside Coke Yard	8																						1				
Totals		60	2	11	7																			12	91	9	100	
Gilmer	Inside	25		3																					28	2		
	Outside Coke Yard	2																										
Totals		27		3																					28	2	30	
Mason	Inside	156	8																					73	235	34		
	Outside Coke Yard	28																						6				
Totals		184	8																					79	235	34	271	
Putnam	Inside	345	100									1												205	801	204		
	Outside Coke Yard	18	50																					26				
Totals		473	210									1												321	801	204	1,065	

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1909.

COUNTY.	Where Employed.	Americans (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.	Total Coke Employees.	Grand Totals.	
McDowell	Inside	2,354	2,895	1,122	1,019	162	5	20	19	1	1	1	10	416	36	4	4	53	12	4	381	23	3	2,418	10,962						
	Outside	679	430	139	20	1	1	6	2										1	1	8	6		338							
	Coke Yard	184	1,074	387	17	16													77	2	12	82			132			1,644	1,983		
Totals		3,217	4,419	1,648	1,056	179	5	20	21	1	1	1	10	416	36	4	4	130	15	4	401	111	3	2,888	10,962			1,644	1,983	14,589	
Lincoln	Inside	81																													
	Outside	15																													
	Coke Yard																														
Totals		99																													
Logan	Inside	613	179	140	263	63			1				22	7	16	3			2		37	5	1	188	1,518						
	Outside	245	22	13	25								1								7			32							
	Coke Yard	65		9	19																							347	100		
Totals		923	201	162	287	63			1				23	7	16	3			2		44	5	1	227	1,518			347	100	1,965	
Mingo	Inside	1,030	214	131	183	18			6	1									1		35			95	1,714						
	Outside	241	23	20	24																15			10							
	Coke Yard																											338			
Totals		1,271	243	151	207	18				6	1								1		50			105	1,714			338			2,053
Wayne	Inside	60																													
	Outside	1																													
	Coke Yard																											60	1		
Totals		61																													61
Totals for state	Inside	19,411	7,919	5,320	2,906	1,457	8	381	51	310	8	96	579	700	17,290	182	64	129	88	17	1,529	81	115	10	9,213	50,808					
	Outside	4,965	1,047	607	161	23		10	1	17			31	4	13	3			6		45										
	Coke Yard	380	1,584	658	56	32							21	2	1	1			2		22										
Grand Totals		24,056	10,550	6,585	3,183	1,512	8	391	52	327	8	96	631	704	17,303	186	64	208	96	17	1,596	81	205	10	10,661	50,808			7,955	3,336	62,189

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1969.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans, (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of (Coke Yard).	Total Coke Employees.	Grand Totals.
Marion County. Cont.																													
Federal Coal & Coke Co.	Federal	Inside Outside Coke Yard	97 20 5	30 9 5	6 9 5	40 4 3	24 2 15		5	15	28					3	4	8			35					285	40		335
The Virginia & Pittsburg Coal & Coke Co.	Kingmont	Inside Outside Coke Yard	165 24 10		45 10 10	5 3 15															15					245	34	10	289
Parker Run Coal & Coke Co.	Parker Run	Inside Outside Coke Yard																						46 6		46	6		52
Harry B. Coal Co.	Harry No. 1	Inside Outside Coke Yard	18 1 6		29 3 4																					47	4		51
Killarm Coal & Coke Co.	Killarm No. 1	Inside Outside Coke Yard	8 6 3						1												1					19	3		32
Pittsburg Steam Coal Co.	Elizabeth	Inside Outside Coke Yard	19 3 9																							9	2		22
Catawba Coal Co.	Catawba	Inside Outside Coke Yard	2 6 3																							7	4		11
Dakota Coal & Coke Co.	Dakota	Inside Outside Coke Yard			1 1																								11
Totals.			1,352	117	854	250	215	71	26	117	60	7				14	7	1	17		202	2		798	3,232	631	39	3,922	
Marshall County.																													
Hitchman Coal & Coke Co.	Hitchman	Inside Outside Coke Yard	32 20 10		40	20	25		20	14	10										15	10				186	20		206
Boggs's Run M. & M'g Co.	Boggs's Run.	Inside Outside Coke Yard	3			3																	3			3	16	3	19

		Inside Outside	31	6		9			2	12			60	13		
Wheeling Steel & Iron Co.	Benwood Mills	Coke Yard	31						1				30			73
Glendale Coal Co.	Glendale	Inside Outside Coke Yard											30			30
Mound Coal Co.	Mound	Inside Outside Coke Yard	13 6	3	9	2	1			4			32	6		38
Bituminous Coal Co. of America	Bituminous No. 1	Inside Outside Coke Yard											20	7		27
Totals			126	3	23	34	31	14	3	12	19	10	1	60	49	303
<i>Ohio County.</i>																
Richland Coal Co.	Richland	Inside Outside Coke Yard	22 12	5 1	11	24	3	24			28	9		137	13	150
Elm Grove Coal Co.	Elm Grove	Inside Outside Coke Yard	13 5		2	12	1	9	2	10			4	56	5	61
Whittaker-Glessner Co.	Carter	Inside Outside Coke Yard	38 7											38	7	45
Reynolds Brewing Co.	Manchester	Inside Outside Coke Yard	11											11		11
J. S. Creighton	Creighton	Inside Outside Coke Yard	4 1											4	1	5
Peter Storch & Sons	Storch	Inside Outside Coke Yard											5	5	2	7
La Belle Iron Works	La Belle (Drift)	Inside Outside Coke Yard											14	14		14
Totals			113	6	12	11	36	33	3	1	2	9	25	285	28	293
<i>Harrison County.</i>																
Clarksburg Fuel Co.	Fall Run	Inside Outside Coke Yard	14 6		22 4	2	2					4		44	10	54
Clarksburg Fuel Co.	Pinnicknick	Inside Outside Coke Yard	28 25	5 2	13 3	24 1	1	5	2	10	12		72	183	37	220
Clarksburg Fuel Co.	O'Neill	Inside Outside Coke Yard	42 16	2 3	36 1	4		1		2			4	89	20	109

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employes.	Total Outside of Coke Yard.	Total Coke Employes.	Grand Totals.	
Harrison County.—Con.																																
Fairmont Coal Co.	Globe	Inside Outside Coke Yard	20 10		1																							2	24	10	34	
Fairmont Coal Co.	Dunham	Inside Outside Coke Yard	29 10		23																				2			52	12			
Fairmont Coal Co.	Ocean	Inside Outside Coke Yard	40 20	3	3		14	12						4			1											77	20		64	
Fairmont Coal Co.	Columbia	Inside Outside Coke Yard	13 20	1		10	18																42					87	23		97	
Fairmont Coal Co.	Robinson Run	Inside Outside Coke Yard	23 7	5		1																						29			106	
Fairmont Coal Co.	Reynoldsville	Inside Outside Coke Yard																									22	14	6		28	
Fairmont Coal Co.	Lynch	Inside Outside Coke Yard	9 2																								5	14			16	
Fairmont Coal Co.	West Fork	Inside Outside Coke Yard	14 3																								4	18	3			
Pittsburg & Fairmont Fuel Co.	Perry No. 1	Inside Outside Coke Yard	15 10	11 1	21 1	14 2		3						3	1		2	1										77	14		91	
Pittsburg & Fairmont Fuel Co.	Coaling Sta	Inside Outside Coke Yard	15 6	5	7	3	2																					33	6		39	
Pittsburg & Fairmont Fuel Co.	Pooz	Inside Outside Coke Yard	22 6	1	12	2																						7	43	13		56

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Lithuanian.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Romanian.	French.	Unknown.	Total Inside Employees.	Total Outside of (Coke Yard).	Total Coke Employees.	Grand Totals.
<i>Harrison County.</i> — <i>Con.</i>																														
Monroe Colliery Co.	Sylvester	Inside Outside Coke Yard	22		23																						31	2	2	30
National Coal Co.	National	Inside Outside Coke Yard	18				2																				20	2	2	22
Fayette Coal Co.	Fayette	Inside Outside Coke Yard	10		15																						25	5	5	30
Short Line Coal Co.	Ghard No. 2	Inside Outside Coke Yard	41		35																						76	13	13	89
Fairmont & Baltimore C. & C. Co.	Fairmore	Inside Outside Coke Yard	70		10										5												85	15	15	100
Madeira-Hill-Clark C. Co.	Goff	Inside Outside Coke Yard	24	1	22	1																					48	5	5	53
Madeira-Hill-Clark C. Co.	Waldo	Inside Outside Coke Yard	47	4	25	1											4				2		136				120	16	16	136
Madeira-Hill-Clark C. Co.	Randolph and New Chieftain	Inside Outside Coke Yard	53	22	32	6											2						8				123	33	33	156
Southwestern Coal Co.	Miller No. 1	Inside Outside Coke Yard	14	2	12																	1					24	5	5	34
Washington Fuel Co.	Miller No. 1	Inside Outside Coke Yard	14	3	42																18	3					18	3	3	21
O'Gara C. Mining Co.	O'Gara	Inside Outside Coke Yard	14	8																			11				70	2	2	72

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Irish.	Greek.	Irish.	Bohemian.	Serbian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of (Coke Yard).	Total Coke Employees.	Grand Totals.
Barbour County, —Con.																														
The Century Coal Co.	Century No. 2	Inside.....	28		30		6	7		3													5				60	1		76
		Outside.....																												
Grafton Fuel Co	Lillian No. 1	Inside.....																									33	2		35
		Outside.....																												
Grafton Fuel Co.	Lillian No. 2	Inside.....																									33	2		35
		Outside.....																												
Davis Coal & Coke Co.	Weaver No. 3.	Inside.....	24		22		4						1														51	6		57
		Outside.....	6																											
Miller Coal & Coke Co	Sara	Inside.....	18																								18	3		25
		Outside.....	3		4																									
Davis Colliery Co	Junior No. 1	Inside.....	2																								2	1		3
		Outside.....	1																											
Midland Coal & Coke Co	Midland	Inside.....																									41	6		67
		Outside.....																									20			
Luella Coal & Coke Co.	Luella	Inside.....	11																								11	2		13
		Outside.....	2																											
Humphreys Collieries Co	Humph. Coll.	Inside.....																									12	1		13
		Outside.....																									1			
Totals		Coke Yard	288	68	178	59	42	41		4		2	10										19				745	108	24	877
Monongalia County.		Inside.....																									152			
Opekiska Coal & C. Co	Opekiska	Outside.....																									38			38

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Total.	
Kingwood Coal Co.	Howesville.	Inside	66				12										1	1		3						17	100	10		110	
		Outside	8														1	1													
		Coke Yard																													
		Inside																													
Hite Coal & Coke Co.	Dixie.	Outside																								3	10	3		13	
		Coke Yard	42	2	6										16								14			55	80	4	10	94	
Orr Coal & Coke Co.	Vulcan.	Outside	2																				6								
		Coke Yard	4	1	1																										
Manufacturers Coal & Coke Co.	Victoria No. 2	Inside																													
		Outside																													
Elkins Coal & Coke Co.	Bretz	Coke Yard																													
		Inside																													
Elkins Coal & Coke Co.	Kingwood	Outside																													
		Coke Yard																													
Elkins Coal & Coke Co.	Masontown No. 6	Inside																													
		Outside																													
Preston County Coke Co.	Cascade or No. 1	Coke Yard	40				20							5								5									
		Inside	5	5										15																	
Totals.		Coke Yard	400	13	63	50				4	1	21	20				6	3		3		25		3	742	1,253	99	71	1,423		
		Inside	25	4	5	3	4													1		8			22	72	10				
Taylor County. Grafton Coal & Coke Co.	Sandlick	Coke Yard	10																												
		Inside	52	2	6																										
Pittsvein Coal Co.	Flemington.	Outside	21																												
		Coke Yard																													

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

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NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans. (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Serbian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard).	Total Coke Employees.	(Grand Totals.
<i>Tucker County.</i>																														
Cumberland Coal Co.	No. 1.	Inside..... Outside..... Coke Yard.....	15 5 20	4 10 1	24 67 26	2 1 8	15 71 10	10 32 32	10 32 32	5 1 1	5 1 1						2		2							77	2		79	
Cumberland Coal Co.	No. 5.	Inside..... Outside..... Coke Yard.....	20 60 18	1 33 2	26 30 4	1 8 4	20 30 10	1 30 10	1 30 32	1 1 1	1 1 1		5				2		2							154	48	8	210	
Davis Coal & Coke Co.	Thomas No. 23	Inside..... Outside..... Coke Yard.....	60 18 13	33 2 1	30 4 4	8 4 4	10 30 10	32 32 32	32 32 32	1 1 1	1 1 1		5				2		2							184	24		208	
Davis Coal & Coke Co.	Pendleton R'n	Inside..... Outside..... Coke Yard.....	13 35 10	1 1 1	40 3 3	11 3 3	29 45 29	29 45 29	29 45 29								25		25							170	14		184	
Davis Coal & Coke Co.	Thomas No. 25	Inside..... Outside..... Coke Yard.....	5 27 5	4 10 5	30 2 32	6 2 3	30 20 3	30 20 3	30 20 3	1 1 1	1 1 1						26		26							65	8		73	
Davis Coal & Coke Co.	Coketon No. 26	Inside..... Outside..... Coke Yard.....	27 5 5	10 5 3	10 2 3	20 2 3	20 2 3	20 2 3	20 2 3				37				1		1							94	7	32	133	
Davis Coal & Coke Co.	Thomas No. 34	Inside..... Outside..... Coke Yard.....	15 2 15	50 3 2	50 5 5	10 12 10	10 12 10	10 12 10	10 12 10				19				24		24							160	12		172	
Davis Coal & Coke Co.	Coketon No. 35	Inside..... Outside..... Coke Yard.....	10 30 10	3 3 1	34 1 67	1 1 1	11 21 18	6 6 1	6 6 1				14				1		1							96	14	70	180	
Davis Coal & Coke Co.	Beacon	Inside..... Outside..... Coke Yard.....	10 4 4	1 1 4	1 1 4	1 1 4	18 18 4	1 1 4	1 1 4				2				5		5							37	11		48	

Gatzmer Coal & Coke Co	Gatzmer No. 1	Inside Coke Yard	2	1	7	124	1	7	2	91	19	3	5	2	100	1,102	144	110	1	3
Totals.....			282	74	437	31	169	124	1	7	2	91	19	3	5	2	100	1,102	144	110
<i>Braxton County.</i>																				
Davis Colliery Co.....	Bower No. 10.	Inside Coke Yard	52	2	11	7					8					80			8	
Davis Colliery Co.....	Copen No. 11.	Inside Coke Yard														11			1	
Totals.....			60	2	11	7					8					91			9	
<i>Gilmer County.</i>																				
The Cosmopolitan Coal & Coke Co.....	Gilmer	Inside Coke Yard	25		3											28			2	
Totals.....			27		3											28			2	
<i>Mason County.</i>																				
Mason City Coal & Min- ing Co.....	Klondyke and Linden	Inside Coke Yard														73			6	
Consumers C. & M. Co	Camden	Inside Coke Yard	27	6												27			6	
Beech Grove Coal Co.....	Beech Grove	Inside Coke Yard	38	3												41			8	
The Liverpool Salt & C. Co.....	Jackson	Inside Coke Yard	32	2												32			2	
Hartford Coal & Mining Co.....	Hartford	Inside Coke Yard	34													34			10	
Dixie Coal Works.....	Dixie	Inside Coke Yard	25	5												30			2	
Totals.....			184	8												237			34	
<i>Putnam County.</i>																				
Plymouth C. & M. Co.....	Plymouth	Inside Coke Yard	14	6												20			5	
Plymouth C. & M. Co.....	Manilla	Inside Coke Yard	70	13												83			11	
Totals.....			84	19												103			16	

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	American (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Lithuan.	Greek.	Bohemian.	Slovak.	Irish.	Bohemian.	Slovak.	Unknown.	Total Inside Employees.	Total Outside of (Coke Yard).	Total Coke Employees.	Grand Totals.
<i>Putnam County—Con't</i>																														
Plymouth C. & M. Co.	California	Inside..... Outside..... Coke Yard	78 10	18																							96	10		106
Alpha Coal & M. Co.	Alpha	Inside..... Outside..... Coke Yard	9 2	1																							10	2		12
The Otto Marmet C. & M. Co.	Big Otto Nos. 1, 2 and 3.	Inside..... Outside..... Coke Yard	170 100	120 50																							290	150		440
Black Betsy C. & M. Co.	Nos. 1 and 2.	Inside..... Outside..... Coke Yard																									268	20		288
Oak Forest C. & M. Co.	Oak Forest	Inside..... Outside..... Coke Yard																									27	6		33
Big Hurricane Coal Co.	Big Hurricane	Inside..... Outside..... Coke Yard	4	2									1														3			4
Totals			473	210									1													321	801	204		1,405
<i>Clay County.</i>																														
Elk River Coal & Lumber Co.	Dundon	Inside..... Outside..... Coke Yard	30 6		1																						61	6		67
Carter Coal Co.	Carter	Inside..... Outside..... Coke Yard	30 5																								30	5		35
Totals			71		1																					22	91	11		102
<i>Fayette County.</i>																														
Sunday Creek Co.	No. 111	Inside..... Outside..... Coke Yard	101 21	26 36	50 4																						147	21		238

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NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Scotch.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Total.
Fayette County.—Con't Manufacturers & Consumers Coal Co.	Newlyn	Inside	90																							90	7		97
		Coke Yard	7																										
The Fayette Coal & Coke Co.	Fayette	Inside	40	5																						45	5		50
		Coke Yard	5																										
Brown Coal Co.	Brown	Inside	79	49																	11					139	16		155
		Coke Yard	10	5																	1					106	10		116
Nuttallburg Collieries Co.	Nuttall & Keeneys Creek	Inside	71	35																						106	46		151
		Coke Yard	9	1																1						46	5		51
Holliday Coal Co.	Keeneys Cr'k	Inside	42	1							1															114	11		125
		Coke Yard	5																							66	7		73
Keeney's Creek Colly Co.	Smokeless	Inside	74	40																						114	11		125
		Coke Yard	7	4																						66	7		73
Keeney's Creek Colly Co.	Boone	Inside	44	22																						84	8		92
		Coke Yard	6	1																						9	1		10
Ballinger Coal Co.	Ballinger No. 1	Inside	46	36														2								84	8		92
		Coke Yard	5	3																						9	1		10
Ballinger Coal Co.	Ballinger No. 2	Inside	5	4																						50	7		57
		Coke Yard	1																							120	4		124
Rothwell Coal Co.	Dubree	Inside	34	15																						50	7		57
		Coke Yard	5	1																						120	4		124
Blume Coal & Coke Co.	Blume	Inside	105	15																						120	4		124
		Coke Yard	4																							120	4		124

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of (Exclusive of Coke Yard).	Total Coke Employees.	Grand Totals.
<i>Fayette County.</i> —Cont'd																													
Quinnimont Coal Co.	Big Q	Inside..... Coke Yard	28 10	32 10	15																					75	20		95
Greenwood Coal Co.	Greenwood	Inside..... Coke Yard	48 10	52 15																						100	25		125
Hemlock Hollow Coal & C. Co.	Hemlock	Inside..... Coke Yard																							110	10		120	
New River & Poca Cons. Coal Co.	Layland	Inside..... Coke Yard	48 22	19 7	61	2	6						12	17	13						7	10			255	31		286	
New River & Poca Cons. Coal Co.	Minden No. 1.	Inside..... Coke Yard	19 5	2		1																			26			23	
New River & Poca Cons. Coal Co.	Minden No. 2.	Inside..... Coke Yard	45 10	15 5	5	30	20							20	5										190	15		205	
New River & Poca Cons. Coal Co.	Minden No. 3.	Inside..... Coke Yard	40 12	10 5	4	15	10		6		2			5	15				1			10			165	22		187	
New River & Poca Cons. Coal Co.	Minden No. 4.	Inside..... Coke Yard	40 25	7 6	10 3	12	10		4					5	5							10			153	34		187	
New River & Poca Cons. Coal Co.	Minden No. 5.	Inside..... Coke Yard	70 14	10 4	4	15	15		20					8	2						10				154	20		174	
New River Valley C. Co.	Bachman	Inside..... Coke Yard																						11	11		2	13	
Matts Branch Coal Co.	Whitney	Inside..... Coke Yard																						10	10		1	11	

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Romanian.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.	Total Coke Employees.	Grand Totals.
<i>Fayette County. — Con't</i>																															
Laura Mining Co.	Laura	Inside Outside Coke Yard	27 4 4	23 4	4																							54	8	62	
Nichol Colliery Co	Nichol	Inside Outside Coke Yard	10 8	12	1	30	15	1			4			3	2								10				84	12	96		
McKell Coal & Coke Co.	Derryhale	Inside Outside Coke Yard	30 6 4	30 4	1	13	15				1							1					14				114	10	124		
McKell Coal & Coke Co.	Kilsyth	Inside Outside Coke Yard	100 13	80 6	100 1	10	9				8						5										312	20	332		
Harvey Coal & Coke Co.	No. 1	Inside Outside Coke Yard																									92	20	112		
Prudence Coal Co	Prudence	Inside Outside Coke Yard	57 20	30 2	1	4	20							10	10												131	24	155		
Collins Colliery Co	Collins No. 1 & 2	Inside Outside Coke Yard	63 30	100 30	5	50								1													228	30	258		
White Oak Fuel Co.	Wingrove	Inside Outside Coke Yard	33 5	30 3	8	7	4			33																	111	20	131		
White Oak Fuel Co	Scarbro	Inside Outside Coke Yard	18 23	13 9		3	49	2															40				125	35	160		
White Oak Fuel Co	Whipple	Inside Outside Coke Yard	42 18	20 18		6	10				10			5	2								3				100	18	118		
White Oak Fuel Co	Carlisle	Inside Outside Coke Yard	5 27	18 13		5	32	3			7		6	5	10								2	3			105	46	151		

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employes.	Total Outside of (Exclusive of Coke Yard).	Total Coke Employes.	Grand Totals.
Kanawha County.	Pen Mar.	Inside.	8																								8	1		9
		Outside.	1																								52	8		
The Clay Coal Co.	Bradley White Ash	Inside.	52																								50	18		68
		Coke Yard	8																								48	5		53
Mill Creek Cannel Coal Co.	Mill Creek	Inside.	49	1																							50			
		Outside.	18																								48	5		53
Blue Creek Coal & Land Co.	Wills Hollow No. 1	Coke Yard	48																								36	3		39
		Inside.	5																								45	8		53
Blue Creek Coal & Land Co.	Wills Hollow No. 2	Coke Yard	36																								45	3		48
		Inside.	3																								51	8		59
Blue Creek Coal & Land Co.	Blakeley No. 3	Coke Yard	45																								15	10		25
		Outside.	8																								213	5		21
Roderick Coal Co.	Roderick	Inside.	51																								17	37		250
		Outside.	8																								17	2		19
Acme Steam Coal Co.	Acme Steam	Coke Yard	15																								16	10		26
		Inside.	10																								2	5		21
Williams Coal Co.	Williams	Coke Yard	16																								2	37		250
		Inside.	5																								17	2		19
The Campbell's Creek Coal Co.	No. 1	Coke Yard	211																								37	5		250
		Inside.	37																								17	2		19
Quincy Coal Co.	No. 1	Coke Yard																									17	2		19
		Inside.																									2	5		21

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

[illegible]

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.)	Total Coke Employees.	Grand Totals.
<i>Nicholas County—Cont</i>																															
Saxman Coal & Coke Co.	Saxman	Inside..... Outside..... Coke Yard.....	17..... 5.....		1		6																					24	5		29
Totals.....			103	2	1		6																				93	19		112	
<i>Greenbrier County.</i>																															
Elk Lick Coal Co.	Lost Flat	Inside..... Outside..... Coke Yard.....	15..... 5.....	1..... 1.....		8..... 1.....	2..... 1.....						1.....	6.....	1.....								9..... 1.....				42	9		51	
Totals.....			20	2		8	3						1	6	1								10				42	9		51	
<i>Raleigh County.</i>																															
Big Coal Co.	Dorothy	Inside..... Outside..... Coke Yard.....	57..... 23.....	22..... 2.....	4..... 9.....	2.....	12.....							4.....						61.....							162	34		196	
The New River Collieries Co.	Royal	Inside..... Outside..... Coke Yard.....	10..... 5.....	10.....																							30	2		32	
The New River Collieries Co.	Lanark No. 3	Inside..... Outside..... Coke Yard.....	7..... 3.....	13.....																							20	3		23	
The New River Collieries Co.	Lanark No. 4	Inside..... Outside..... Coke Yard.....	32..... 8.....	15.....	17.....																						64	7		71	
The New River Collieries Co.	Eccles No. 11	Inside..... Outside..... Coke Yard.....	39..... 6.....	11.....	15.....	5.....	10.....							5.....			1.....									10	100	6		116	
McKell Coal & Coke Co.	Oswald and Sidney	Inside..... Outside..... Coke Yard.....																								108	11			119	
McKell Coal & Coke Co.	Graham	Inside..... Outside..... Coke Yard.....																								49	15			64	

U. S. Coal & Coke Co	No. 11	Inside Coke Yard	29	20	51	7	1							4	10	4		151	16	167
U. S. Coal & Coke Co	No. 12	Inside Coke Yard	21	25	26	13												9	105	
Central Pocahontas Coal Co	Anawath	Inside Coke Yard	12	1	22									3	5			8	3	140
Black Wolf Coal & C. Co	No. 4	Inside Coke Yard	30	20	13													63	15	78
Page Coal & Coke Co	Nos. 1 and 3	Inside Coke Yard	20	15	30										15			170	35	251
Page Coal & Coke Co	No. 2	Inside Coke Yard	20	15	1													35	46	35
Welch Coal & Coke Co	Welch	Inside Coke Yard	20	25	14													60	10	70
Hemphill Colliery Co	Hemphill	Inside Coke Yard	10	22	11													53	3	56
Middle States Coal & Coke Co	No. 11	Inside Coke Yard	2	1														127	22	187
Dixon-Pocahontas Fuel Co	North Side	Inside Coke Yard	45	18	35	10	3	1	3						4	6		55	38	70
Dixon-Pocahontas Fuel Co	South Side	Inside Coke Yard	13	5	23													15	15	66
Cirrus Coal & Coke Co	Cirrus No. 1	Inside Coke Yard	16	11	6	4												37	10	47
Cirrus Coal & Coke Co	No. 2	Inside Coke Yard	4	4	7													15	5	20
Virginia Fuel Co	Virginia	Inside Coke Yard	10	4	6													20	6	26
The King Coal Co	King	Inside Coke Yard	11	126	3													140	20	100
The Tidewater Coal & Coke Co	Tide-water	Inside Coke Yard	12	124	4													140	20	180

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans. (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Panish.	Welsh.	Austrian.	Russian.	German.	Scotch.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard).	Total Coke Employees.	Grand Totals.
McDowell County—Con. Bottom Creek Coal & Coke Co.	Bottom Creek	Inside.....	32	77	30						2			41			1			2	6						189	31	27	247
		Outside Coke Yard	15	12								1										1					146	20	45	211
Peerless Coal & Coke Co	Peerless	Inside.....																									146			
Empire Coal & Coke Co.	Empire	Outside.....	26	169	25						8																120	15	25	160
		Coke Yard	14	14	12																						15	25	40	327
Shawnee Coal & Coke Co	Shawnee	Inside.....																									120			
Eureka Coal & Coke Co.	Eureka	Outside.....	40	80	20																						140	15	45	200
		Coke Yard	5	10																							25	15	45	200
Pulaski Iron Co	Pulaski	Inside.....	21	90	80																						240	40	120	400
		Coke Yard	113	4											2												175	25	25	225
Keystone Coal & Coke Co	Keystone Nos. 1 and 2	Inside.....	50	52	50	10																					220	20	25	225
		Coke Yard	15	10	5																						20	20	20	240
Lynchburg Coal & Coke Co.	Lynchburg	Inside.....	5	10	5																						20	20	20	240
		Coke Yard																									20	20	20	240
Powhatan Coal & C. Co.	Powhatan	Inside.....	55	30	8	10																					140	33	45	218
		Coke Yard	16	17	2																						170	20	55	245
Upland Coal & Coke Co.	No. 1	Inside.....	3	35	2	20																					199	20	55	245
		Coke Yard	10	10	20	5																					199	20	55	245
Houston Coal & Coke Co	Nos. 1 and 2	Inside.....	148	4	51																						20	20	50	269
		Coke Yard	16	4	5																						20	20	50	269

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	American (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slovak.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.	Total Coke Employees.	Grand Totals.
Logan County—Cont.																										
Fort Branch Coal Co.	Fort Branch.	Inside Outside Coke Yard	23 4 2			13																	24	6	30	
Price Coal Co.	Price.	Inside Outside Coke Yard	8 2 35																				40	10	50	
Rex Coal & Coke Co.	Rex.	Inside Outside Coke Yard	7 32 10		3																		62	10	55	
The Logan Coal Co.	Logan No. 1.	Inside Outside Coke Yard	32 10 14																				53	10	63	
Ethel Coal Co.	Ethel.	Inside Outside Coke Yard	16 20 34	38		2	12					1											105	35	140	
The Monitor Coal & Coke Co.	Monitor.	Inside Outside Coke Yard	8 20 8		25	20	2					2	6										37	5	57	
The Monitor Coal & Coke Co.	Beechwood.	Inside Outside Coke Yard	8 20 8			20	2																45	5	50	
The Yuma Coal & Coke Co.	Yuma.	Inside Outside Coke Yard																					50	14	64	
The Gay Coal & Coke Co.	Gay.	Inside Outside Coke Yard																					43	7	50	
Cora Coal & Coke Co.	Cora.	Inside Outside Coke Yard																					43	7	50	
Island Creek No. 1.	Island Creek No. 1.	Inside Outside Coke Yard	11 40 65	34 15 9	41 13 9	61 13 19															1	6	193	68	100	
U. S. Coal & Oil Co.																							7		361	

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Rumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Totals.		
Mingo County.—Cont.																																	
Rawl Coal & Coke Co.	Rawl No. 1.....	Inside..... Coke Yard	20 4																										20	4		24	
Rawl Coal & Coke Co.	Rawl No. 2.....	Inside..... Coke Yard	10																										10			10	
White Star Mining Co.	Commercial	Inside..... Coke Yard	25 6																										25	6		31	
		Inside..... Coke Yard	60 4																										60			60	
Marvin Coal Co.	Marvin	Outside..... Coke Yard	7																														7
Red Jacket Cons. Coal & Coke Co.	Rutherford	Inside..... Coke Yard	20 10	12	3	15																						10	60			67	
		Outside..... Coke Yard	11																										11	12		23	
Red Jacket Cons. Coal & Coke Co.	Logan	Inside..... Coke Yard	2																														2
Red Jacket Cons. Coal & Coke Co.	Red Jacket	Outside..... Coke Yard	60 10	10		36 5																							106	15		121	
		Inside..... Coke Yard	10																										10	2		12	
Red Jacket Cons. Coal & Coke Co.	Lick Fork	Inside..... Coke Yard	25 2		20	30 8																							25	10		35	
Red Jacket Cons. Coal & Coke Co.	Grapevine	Outside..... Coke Yard	40 6		10 4	18 5																											2
		Inside..... Coke Yard	19 17																														32
Lynn Coal & Coke Co.	Lynn	Outside..... Coke Yard	10 10	20	12		13																										49
Thacker Coal & Coke Co.	Thacker No. 2	Inside..... Coke Yard	10 10	20																													52

TABLE SHOWING AVERAGE PRICE PAID PICK MINERS PER YEAR
AND MONTH FROM 1897 TO 1909 INCLUSIVE.

YEAR.	Average Earnings of Each Pick Miner Per		Average Price Per Ton of 2,240 Lbs. Received for Pick Mining (Run of Mine.)
	Year.	Month.	
1897.....	\$ 275.58	\$ 22.96	\$.35 1-5
1898.....	316.39	26.36	.33 9-10
1899.....	367.84	30.65	.3612
1900.....	451.77	37.65	.4106
1901.....	459.56	38.29	.441
1902.....	533.56	44.46	.471
1903.....	499.06	41.59	.491
1904.....	484.96	40.41	.491
1905.....	508.01	42.17	.47
1906.....	599.37	49.95	.48
1907.....	643.05	53.59	.49
1908.....	503.84	41.99	.46
1909.....	481.17	40.10	.43

**WAGES PAID AND SELLING PRICE OF COAL AND COKE FOR THE
YEAR ENDING JUNE 30TH, 1909.**

COUNTY.	Paid Pick Miners per Ton of 2,240 lbs.				Selling Price of	
	Run of Mine.			Screened	Coal.	Coke.
	Day.	Room.	Heading.	Room.	(Tons of 2,240 Lbs.)	(Tons of 2,000 Lbs.)
Brooke.....	\$.....	\$.....	\$.....	\$ 1.01	\$ 1.04	\$.....
Hancock.....40	.....	.78	1.12	.....
Marion.....34	.40	.....	.89	1.53
Marshall.....	2.25	.....	.....	.80	1.01	.....
Ohio.....84	1.18	.....
Harrison.....29	.37	.....	.68	.....
Lewis.....67	.....
Upshur.....48	.56	.....	.79	.....
Barbour.....38	.45	.....	.76	1.45
Monongalia.....37	.51	.....	.75	1.88
Preston.....44	.51	.....	.78	1.63
Taylor.....38	.43	.....	.76	1.30
Grant.....46	.....	.....	.98	.....
Mineral.....55	.64	.....	.91	.....
Randolph.....44	.....	.....	.88	1.69
Tucker.....50	.....	.....	1.11	1.89
Braxton.....40	.....	.....	.85	.....
Gilmer.....50	.56	.....	.65	.....
Mason.....	2.25	.63	.....	.74	1.04	.....
Putnam.....43	.....	.73	1.20	.....
Clay.....56	.....	.....	.98	.....
/ Kanawha River Series.					1.02	1.70
Fayette.....49	.....	.....	1.10	2.43
/ New River Proper					1.20	2.55
/ Loup Creek.....					1.03	.....
Kanawha.....50	.....	.76	.....	.....
Boone.....40	.....	.....	.82	.....
Nicholas.....54	.60	.....	.95	.....
Greenbrier.....50	.....	.....	1.33	.....
Raleigh.....39	.49	.....	1.02	.....
Mercer.....35	.41	.....	.96	1.66
/ Pocahontas No. 3					.98	1.77
McDowell.....32	.39	.....	.98	.....
/ Pocahontas Thin Vein.....					.98	.....
Lincoln.....56	.69	.....	.96	.....
Logan.....32	.....	.....	.96	.....
Mingo.....30	.38	.....	.96	.....
Wayne.....49	.54	.....	.94	.....
Averages.....	\$2.25	\$.43	\$.49	\$.80	\$.95	\$ 1.79

SUMMARY OF THE WAGES PAID MACHINE MINERS, RUNNERS AND HELPERS FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	Machine Miners Paid Per				Machine Runners.		Machine Helpers.	
	Ton of 2,240 lbs. Run-of-Mine.		Ton of 2,240 lbs. Screened.		Wages.	Paid by	Wages	Paid by
	Room.	Heading	Room.	Heading				
	6	6	6	6	6		6	
Brooke			.54		\$.06	Long Ton (Room)	.06	Long Ton (Room).
Hancock					.20	Room	.20	Room.
Marion	17	23	.40		.25	Heading	.25	Heading.
Marshall07	Long ton (Room)	.07	Long Ton (Room).
Ohio	3756		(2.03)	Day	2.03	Day.
Harrison	18	24	.63		.05	Long Ton (Room)	.05	Long Ton (Room).
Lewis	23	...			(2.50)	Day	2.25	Day.
Upshur	18	20			.03	Long Ton (Room)	.03	Long Ton (Room).
Barbour	23	25			(2.02)	Day	.10	Long Ton (Screened).
Monongalia	27	40			.05	Long Ton (Room)	.05	Long Ton (Room).
Preston	29	35			.07	Long Ton (Room)	.07	Long Ton (Room).
Taylor	28	30			.10	Long Ton (Heading)	.07	Long Ton (Room).
Grant	3903	Long Ton (Room)	.03	Long Ton (Room).
Mineral	3005	Long Ton (Room)	.05	Long Ton (Room).
Tucker	4003	Long Ton (Room)	.03	Long Ton (Room).
Mason	38	44			.05	Long Ton (Room)	.05	Long Ton (Room).
Putnam	4308	Long Ton (Room)	.08	Long Ton (Room).
Clay	4003	Long Ton (Room)	.03	Long Ton (Room).
Fayette	51	38			.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.10	Long Ton (Room)	.10	Long Ton (Room).
					.11	Long Ton (Heading)	.11	Long Ton (Room).
					.08	Long Ton (Room)	.08	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).
					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
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					.07	Long Ton (Room)	.07	Long Ton (Room).
					.03	Long Ton (Room)	.03	Long Ton (Room).
					.05	Long Ton (Room)	.05	Long Ton (Room).

(New River Proper	30			2.63	Day	2.21	Day.
Fayette } Lump Creek	27			(2.75	Day	2.13	Day.
} Lump Creek				.46)	Long Ton (Room)	.04	Long Ton (Room).
Kanawha	22	30		2.65	Day	2.27	Day.
				.08	Long Ton (Room)	.07	Long Ton (Room)
				1.50	Place	1.50	Place.
				.65	Foot	.65	Foot.
Nicholas	30	35		2.35	Day	2.35	Day.
Raleigh	27	35		2.50	Day	2.13	Day.
Mercer	30	35		2.50	Day	1.75	Day.
(Pocahontas No. 3	32	45		2.75	Day	2.00	Day.
{ Thin Vein				2.50	Day	1.92	Day.
McDowell				.50	Place	.45	Place.
Lincoln	25	33		.06	Long Ton (Room)	.06	Long Ton (Room).
Logan	24	30		2.50	Day	2.00	Day.
				.06	Long Ton (Room)	.07	Long Ton (Room).
				.12	Long Ton (Heading)	.10	Long Ton (Heading).
				2.63	Day	1.92	Day.
				.11	Long Ton (Room)	.07	Long Ton (Room).
Mingo	24	31		(2.50	Day	2.08	Day.
			54	.07	Long Ton (Room)	.06	Long Ton (Room).
				.30	Run	.11	Long Ton (Heading).
Averages	20	32		.50	Room	.20	Room.
				.83	Place	.80	Place.
				.11	Long Ton (Heading)	.25	Heading.
				.63	Foot (Room)	.66	Foot.
				.10	Long Ton (Screened)	.10	Long Ton (Screened).

STATEMENT OF THE TONNAGE OF COAL AND COKE FROM THE COLLIERIES IN WEST VIRGINIA HANDLED
AND TRANSPORTED BY THE RAILROADS IN THE STATE DURING THE TWELVE MONTHS ENDING

JUNE 30TH, 1909. (Quantities are expressed in tons of 2,000 lbs.)

Name of Railroad Company.	Total Tons Handled.		Tons Originating on the Line.		Tons Delivered to the Line by other Railroads in West Virginia.		Tons Delivered to other Lines in West Virginia.		W. Va. Fuel used by the Line in the State.		Railroads and Docks to which Product is Delivered for Distribution.	Points of Destination of the Product.	
	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.		East.	West.
Baltimore & Ohio R. R. Co.....	8,304,562	429,908	7,709,860	162,565	594,702	267,403			No data		Various.	All Sections.	All sections, as far as Pacific Coast.
Western Maryland R. R. Co.....	2,425,924	212,300	2,331,021	195,218	94,903	17,001	71,874	7,317	185,721	109	B. & O. R. R.; P. & E. R. R.; Penna. R. R.; Coal & Coke Ry.; and Port Covington Coal Piers, Baltimore, Md.	Coal Pier at Baltimore, Philadelphia and New York and local points on W. Maryland R. R.; Penn. R. R.; and P. & R. Ry.; and connections.	Various Western Points reached via B. & O. R. R. and Coal & Coke Ry. and their connections.
Kanawha & Michigan R. R. Co.....	2,464,374	221,175	2,231,730	202,387	232,635	18,788	no record	no record	no record	14	Various railroads throughout various States Lake-coal handled over Docks at Toledo on both Hocking Valley and Toledo and Ohio Central railroads; Lambert Piers; Toledo & Sandusky Docks; S. A. Line; A. C. Line; S. O. Ry.; L. & N. R. R.; & O. C. Lines, land.	Various points throughout the country.	Various points in Ohio, Indiana and Lake Points.
Norfolk & Western Ry. Co.....	12,428,385	2,266,496	11,128,988	1,384,210	6,637	882	63		no record	no record	Foreign Ports and Atlantic Coast (Tide-water) Virginia; N. & S. Carolina L. & N. R. R.; points (In-land).	Foreign Ports and Atlantic Coast (Tide-water) Virginia; N. & S. Carolina L. & N. R. R.; points (In-land).	Cincinnati; Lake Points; Chicago; and Western Cities.

Chesapeake & Ohio Ry. Co	13,100,120	376,141	12,949,299	296,460	150,830	79,681	743	2,845	614,838	801	Southern Ry.: A. C. Line; Seaboard Air Line; R. F. & P. Ry.; C. C. & S. L. Ry.; P. C. C. & S. C. L. R.; B. & O. & D.; C. C. C. & L.	Newport News; Richmond; Various South- ern Points; Washington; Lynchburg and Local Points.	Chicago; Chi- cago; Toledo; Various Points in Ohio, Indiana and Michigan, and Local Points.
Coal & Coke Ry. Co	378,180	54,575	351,214	54,535	26,965	40	371,175	54,575	36,770		West'n Mary- land R. R.; B. & O. R. R.	Port Reading; Port Rich- mond.	Chicago; Toledo; Detroit; Colum- bus; Cleveland Lake Points.
Totals	39,101,554	3,560,604	36,702,121	2,895,315	1,106,673	383,885	443,855	64,737	867,329	900	Ohio Central Lines.	Philadelphia; Net Cong. & other Points.	

**NUMBER OF KEGS OF POWDER USED AT THE MINES, BY
COUNTIES, FOR 1909.**

COUNTY.	Number of opera- tions re- porting.	Tons of Coal (Tons of 2,240 lbs.)	No. Kegs of Powder Used.	Cost Per Keg to Miner	No. Pounds of Dyna- mite used	Pounds of so-called Safety Powder used
Brooke.....	4	351,180	3,366	\$1.62		
Marion.....	14	1,619,790	16,316	1.60	150	333,280
Marshall.....	2	28,667	190	1.70		
Ohio.....	6	148,134	1,070	1.64		
Harrison.....	22	1,483,557	14,160	1.62	325	115,112
Lewis.....	1	13,780	258	2.00		
Upshur.....	2	12,003	610	1.65	400	
Barbour.....	11	300,647	5,237	1.61		153,357
Monongalia.....	4	145,185	1,873	1.60		
Preston.....	14	606,689	9,775	1.57	3,800	1,675
Taylor.....	6	343,841	2,814	1.55	1,400	1,200
Grant.....	3	177,406	2,125	1.78		8,000
Mineral.....	14	358,910	4,246	1.62	1,185	
Randolph.....	7	463,206	5,970	1.60	600	
Tucker.....	9	989,957	6,455	1.75	23,415	500
Braxton.....	2	93,024	1,008	1.75	150	
Gilmer.....	1	14,740	200	1.75	50	
Mason.....	4	73,429	2,630	1.80		
Putnam.....	6	376,634	12,000	1.75	2,325	
Clay.....	1	4,464	300	1.75		
Fayette.....	80	5,048,433	99,617	1.87	30,830	214,793
Kanawha.....	83	3,463,800	40,899	1.75	7,160	2,040
Boone.....	1	2,915	102	1.80		
Nicholas.....	3	23,339	576	1.73	1,500	1,200
Greenbrier.....	1	32,296	460	2.00		
Raleigh.....	23	205,610	7,224	1.87	1,500	101,035
Mercer.....	16	1,963,901	30,540	2.00	14,750	12,250
McDowell.....	81	8,731,251	84,803	2.00	187,539	226,419
Lincoln.....	1	41,288	420	1.75		
Logan.....	14	1,545,681	13,748	1.75		
Mingo.....	21	1,485,371	20,065	1.87	4,450	
Wayne.....	1	34,619	1,316	1.85		
Totals.....	458	30,133,757	391,282	1.75	281,529	1,170,861

STEAM BOILERS AT MINES—1909.

COUNTY.	Number of Boilers Insured.	Number of Boilers not Insured	Total Number of Boilers.
Brooke.....	8		8
Hancock.....	1		1
Marion.....	25	56	81
Marshall.....	10	6	16
Ohio.....		2	2
Harrison.....	21	42	63
Lewis.....		1	1
Upshur.....	1	1	2
Barbour.....	18	8	26
Monongalia.....		10	10
Preston.....	32	1	33
Taylor.....	9	2	11
Grant.....	6		6
Mineral.....	9	7	16
Randolph.....	13		13
Tucker.....	25	2	27
Mason.....		6	6
Putnam.....	3	15	18
Clay.....		1	1
Fayette.....	201	23	224
Kanawha.....	117	16	133
Nicholas.....	3	1	4
Greenbrier.....	1		1
Raleigh.....	66		66
Mercer.....	67	3	70
McDowell.....	214	14	228
Lincoln.....		2	2
Logan.....	20		20
Mingo.....	40	9	49
Totals.....	910	228	1,138

*SUMMARY OF THE NUMBER OF MINE LOCOMOTIVES IN THE
STATE—1909.*

COUNTY.	No. of Mines Using Locomotives.	Locomotives.			
		Steam.	Electric.	Comp. Air.	Sum Total.
Brooke	5		10		10
Hancock	1		1		1
Marion	15		33	6	39
Marshall	4		10		10
Ohio	2		2		2
Harrison	25	6	29		35
Lewis	1			1	1
Upshur	1		4		4
Barbour	6		11		11
Monongalia	4		12		12
Preston	6		14		14
Taylor	4		7		7
Grant	1		4		4
Mineral	5	3	3		6
Randolph	2		5		5
Tucker	8	2	16		18
Mason	3	1	2		3
Putnam	6		11		11
Clay	1		1		1
Fayette	85	21	173	1	195
Kanawha	72	3	107		110
Nicholas	2		2		2
Raleigh	23	3	42		45
Mercer	17	15	15		30
McDowell	79	18	160	1	179
Logan	12		28		28
Mingo	14	6	21	*1	28
Totals	402	78	723	10	811

* Not in use.

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES

—1909.

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Brooke County.</i>				
La Belle Coal Co.	Lewis No. 1		1	
Beech Bottom Coal Co.	Beech Bottom No. 1		3	
Lewis-Findley Coal Co.	Locust Grove		3	
La Belle Iron Works	La Belle Shaft		3	
Rex Carbon Coal Co.	Rex No. 1		1	
Totals			10	
<i>Hancock County.</i>				
The Marquet Coal Co.	No. 4		1	
Totals			1	
<i>Marion County.</i>				
Fairmont Coal Co.	Montana		1	
Fairmont Coal Co.	Shaft		2	
Fairmont Coal Co.	New England		5	
Fairmont Coal Co.	Gaston		2	
Fairmont Coal Co.	Monongah No. 2		2	
Fairmont Coal Co.	Monongah No. 6		4	
Fairmont Coal Co.	Monongah No. 8		6	
Fairmont Coal Co.	Shaver		2	
Fairmont Coal Co.	Anderson		1	
Fairmont Coal Co.	Highland		2	
Fairmont Coal Co.	Middleton		2	
Fairmont Coal Co.	Chiefton		1	
New Central Coal Co.	Stafford			2
Federal Coal & Coke Co.	Federal No. 1			4
The Virginia & Pittsburg Coal & Coke Co.	Kingmont		3	
Totals			23	6
<i>Marshall County.</i>				
Hitchman Coal & Coke Co.	Hitchman		2	
Wheeling Steel & Iron Co.	Benwood		5	
Glendale Coal Co.	Glendale		1	
Bituminous Coal Co. of America	Bituminous No. 1		2	
Totals			10	
<i>Ohio County.</i>				
Richland Coal Co.	Richland		1	
Elm Grove Coal Co.	Elm Grove		1	
Total			2	
<i>Harrison County.</i>				
Clarksburg Fuel Co.	Fall Run		1	
Clarksburg Fuel Co.	Pinnickinnick		2	
Clarksburg Fuel Co.	Two Lick		1	
Clarksburg Fuel Co.	Despard		1	
Fairmont Coal Co.	Enterprise		4	
Fairmont Coal Co.	Viropa		2	
Fairmont Coal Co.	Riverdale		1	
Fairmont Coal Co.	Ehlen		1	
Fairmont Coal Co.	Gypsy		2	
Fairmont Coal Co.	Meadowbrook		1	
Fairmont Coal Co.	Globe		1	
Fairmont Coal Co.	Dunham		1	
Fairmont Coal Co.	Robinson Run		1	
Pittsburg & Fairmont Fuel Co.	Perry		2	
Cook Coal & Coke Co.	Girard No. 1		1	
Cook Coal & Coke Co.	Girard No. 1A		1	
Corona Coal & Coke Co.	Harold		1	
Meadow Brook Coal & Coke Co.	Erie		1	
Short Line Coal Co.	Girard No. 2	2		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Harrison County.—Con't.</i>				
Fairmont & Baltimore Coal & Coke Co	Fairmore	1		
Southwestern Coal Co	Miller No. 1	1		
Washington Fuel Co	Miller Nos. 1 and 2	1		
Madeira-Hill-Clark Coal Co	New Chieftain & Randolph		2	
Piteairn Coal Co	Piteairn	1	1	
Hutchinson Fuel & Supply Co	Hutchinson Nos. 1 and 2		1	
Totals		6	20	
<i>Lewis County.</i>				
Jacksonville Coal & Coke Co	Sarah B. No. 3			1
Total				1
<i>Upshur County.</i>				
Red Rock Fuel Co	Nos. 1 & 2		4	
Total			4	
<i>Barbour County.</i>				
Merriden Coal Mining Co	Meriden Nos. 1, 2 and 4		2	
Tygart's River Coal Co	Arden		1	
Fairmont Coal Co	Berryburg		2	
The Century Coal Co. of West Virginia	Century No. 1		4	
Miller Coal & Coke Co	Sara		1	
Midland Coal & Coke Co	Midlaad		1	
Totals			11	
<i>Monongalia County.</i>				
Fairmont Coal Co	Beechwood		1	
Elkins Coal & Coke Co	Richard		3	
Elkins Coal & Coke Co	Sabraton		5	
Connellsville Basin Coke Co	Nos. 1, 2 and 3		3	
Totals			12	
<i>Preston County.</i>				
Austen Coal & Coke Co	Austen No. 1		2	
Austen Coal & Coke Co	Austen No. 2		1	
Merchants Coal Co	No. 2		3	
Elkins Coal & Coke Co	Bretz		4	
Elkins Coal & Coke Co	Kingwood No. 4		2	
Elkins Coal & Coke Co	Masontown or No. 6		2	
Totals			14	
<i>Taylor County.</i>				
Pittsvein Coal Co	Flemington		2	
McGraw Coal Co	New York		3	
Rosemont Coal Co	Rosemont		1	
Johnson Bros. Coal Co	Cecil		1	
Totals			7	
<i>Grant County.</i>				
Davis Coal & Coke Co	Henry No. 22		4	
Total			4	
<i>Mineral County.</i>				
Davis Coal & Coke Co	Ott No. 20		1	
Davis Coal & Coke Co	Montgomery Run No. 19		1	
Davis Coal & Coke Co	Hartmansville No. 9		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Mineral County.—Con't.</i>				
Abrams Creek Coal & Coke Co.....	Oakmont		1	
Gleason Coal & Coke Co.....	Gleason No. 2		2	
Totals		3	3	
<i>Randolph County.</i>				
Davis Colliery Co.....	Coalton No. 1.....		2	
Davis Colliery Co.....	Harding No. 3.....		2	
Totals			5	
<i>Tucker County.</i>				
Cumberland Coal Co.....	Douglas No. 1.....	1		
Cumberland Coal Co.....	Douglas Nos. 4 & 5.....	1		
Davis Coal & Coke Co.....	Thomas No. 23 & Pen Run		4	
Davis Coal & Coke Co.....	Thomas No. 25.....		3	
Davis Coal & Coke Co.....	Thomas No. 34.....		2	
Davis Coal & Coke Co.....	Coketon No. 25.....		1	
Davis Coal & Coke Co.....	Coketon No. 36.....		3	
Davis Coal & Coke Co.....	Coketon No. 37.....		3	
Totals		2	16	
<i>Mason County.</i>				
Consumers Coal & Mining Co.....	Camden.....		1	
Liverpool Salt & Coal Co.....	Jackson.....	1		
Hartford Coal & Mining Co.....	Hartford.....		1	
Totals		1	2	
<i>Putnam County.</i>				
Plymouth Coal & Mining Co.....	Plymouth		1	
Plymouth Coal & Mining Co.....	Manilla.....		1	
Plymouth Coal & Mining Co.....	California.....		1	
The Otto Marmet Coal & Mining Co.....	Big Otto Nos. 1, 2 & 3.....		5	
Black Betsey Coal & Mining Co.....	Nos. 1 & 2.....		3	
Totals			11	
<i>Clay County.</i>				
Elk River Coal & Lumber Co.....			1	
Total			1	
<i>Fayette County.</i>				
Sunday Creek Co.....	No. 112.....		3	
Sunday Creek Co.....	No. 114.....		2	
Sunday Creek Co.....	No. 115.....		3	
The Columbus Iron & Steel Co.....	No. 1.....		4	
Kanawha Gas Coal Co.....	Kanawha Gas.....		1	
Kanawha Gas Coal Co.....	Eagle.....		1	
W. R. Johnson & Co.....	Oakland.....		2	
Boomer Coal & Coke Co.....	No. 1.....		1	
Boomer Coal & Coke Co.....	No. 2 North.....		3	
Boomer Coal & Coke Co.....	No. 2 South.....		1	
Boomer Coal & Coke Co.....	No. 3.....		2	
Eureka Colliery Co.....	Eureka No. 13.....		1	
Eureka Colliery Co.....	Eureka No. 14.....		1	
W. R. Johnson Co.....	Eagle No. 1.....		1	
W. R. Johnson Co.....	No. 5 Splint.....	1		
W. R. Johnson Co.....	No. 6 Splint.....		1	
Mecca Coal & Coke Co.....	Mecca No. 2.....		1	
Mecca Coal & Coke Co.....	Mecca No. 5.....		1	
The Carver Bros. Co.....	Nos. 2 & 3.....		1	
The Carver Bros. Co.....	Diamond.....	1	1	
M. B. Coal Co.....	Elk Ridge No. 1.....		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

		Locomotives.		
NAME OF COMPANY.	NAME OF MINE.	Steam.	Electric.	Comp. Air.
<i>Fayette County—Cont.</i>				
The Mount Carbon Co., L't'd	Vulcan		1	1
Great Kanawha Colliery Co	Brewster		1	
Loup Creek Colliery Co	Ansted and Eagle	2	1	
Lynchburg Colliery Co	Lynchburg	1		
The Gauley Mountain Coal Co	Nova Scotia & Turkey Creek	4	4	
Nuttallburg Collieries Co	Nuttallburg & Keeney's Cr'k		2	
Keeney's Creek Colliery Co	Smokeless		2	
Keeney's Creek Colliery Co	Boone	1	1	
Rothwell Coal Co	Dubree		1	
Blume Coal & Coke Co	Blume		2	
Fire Creek Coal & Coke Co	Fire Creek and Buffalo	1		
Beechwood Coal & Coke Co	No. 2	1		
Alaska Coal & Coke Co	Alaska	1		
Ephraim Creek Coal & Coke Co	Buffalo		8	
Ridgeview Coal Co	Ridgeview	1		
Export Coal Co	Export	1		
Laurel Creek Coal Co	Laurel		1	
Glendale Colliery Co	Glendale	1		
Quinnimont Coal Co	Big Q		1	
Greenwood Coal Co	Greenwood	2	2	
Hemlock Hollow Coal & Coke Co	Hemlock		5	
New River & Pocahontas Cons. Coal Co.	Layland		12	
New River & Pocahontas Cons. Coal Co.	Minden No. 1	1		
New River & Pocahontas Cons. Coal Co.	Minden No. 2		4	
New River & Pocahontas Cons. Coal Co.	Minden No. 3		6	
New River & Pocahontas Cons. Coal Co.	Minden No. 4		7	
New River & Pocahontas Cons. Coal Co.	Minden No. 5		5	
The Low Moor Iron Co. of Virginia	Kaymoor No 1		3	
Elverton Coal & Coke Co.	Elverton		2	
South Side Co	South Side		1	
The Thurmond Coal Co	Thurmond No. 1		2	
The Thurmond Coal Co	Thurmond No. 2		1	
New River Collieries Co	Brooklyn		2	
New River Collieries Co	Red Ash		2	
New River Collieries Co	Rush Run		6	
New River Collieries Co	Sun No. 1		3	
New River Collieries Co	Sun No. 2		3	
New River Collieries Co	Sun No. 3		1	
The Dungen Coal Co.	Nos. 1 & 2	1		
The Star Coal & Coke Co	Star		2	
Nichol Colliery Co	Nichol		4	
McKell Coal & Coke Co	Derryhale		2	
McKell Coal & Coke Co	Kilsyth		4	
Harvey Coal & Coke Co.	No. 1		1	
Prudence Coal Co	Prudence, Lyman & Jones	1		
Collins Colliery Co	Nos. 1 & 2		5	
White Oak Fuel Co	Wingrove		3	
White Oak Fuel Co	Scarbro		6	
White Oak Fuel Co	Whipple		3	
White Oak Fuel Co	Carlisle		2	
White Oak Fuel Co	Oakwood		2	
Stuart Colliery Co	Parral		1	
Stuart Colliery Co	Stuart		4	
Dunn Loop Coal & Coke Co	Dunn Loop No. 1		1	
Dunn Loop Coal & Coke Co	Dunn Loop Nos. 2 & 3		2	
Macdonald Colliery Co	Macdonald		1	
Price Hill Fuel Co	Price Hill		2	
Turkey Knob Coal Co	Turkey Knob		4	
Totals		21	173	1
<i>Kanawha County.</i>				
Queen Coal & Coke Co	Turner		1	
Elk Coal & Coke Co	Turner		1	
Blue Creek Coal & Land Co	No. 3		1	
Roderick Coal Co	Quick		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
Kanawha County—Cont.				
The Campbells Creek Coal Co	No. 1			5
Quincy Coal Co., Inc.	No. 2			1
Sunday Creek Co.	No. 101			1
Sunday Creek Co.	No. 104			2
Sunday Creek Co.	No. 105			2
Sunday Creek Co.	No. 109			1
Kellys Creek Colliery Co.	No. 1			1
Kellys Creek Colliery Co.	Nos. 2 & 4			3
Hughes Creek Coal Co.	Hugheston Nos. 2 & 3			2
Cannelton Coal Co.	Cannelton No. 2			2
The Ma. met Coal Co.	Monarch			2
The Marmet Coal Co.	Butler			3
Olcott Coal & Iron Co.	No. 1			2
Olcott Coal & Iron Co.	No. 2			2
Winifrede Coal Co.	North Pick & Machine			2
Winifrede Coal Co.	West			1
Winifrede Coal Co.	New Coalburg			2
Dry Branch Coal Co.	Gas			1
Dry Branch Coal Co.	Coalburg			1
Dry Branch Coal Co.	Belmont			1
Coalburg Colliery Co.	Ronda			1
Wyatt Coal Co.	Oakley			1
Wyatt Coal Co.	Berlin			1
Wyatt Coal Co.	South Horton			1
Lamont Mining Co.	No. 1			1
Lamont Mining Co.	No. 3			1
Holley & Stephenson Coal & Coke Co.	Stephenson No. 2			1
Wake Forest Mining Co.	Wake Forest			1
Carbon Coal Co.	North			1
Carbon Coal Co.	South			3
Carbon Coal Co.	South Splint			3
Republic Coal Co.	No. 1			2
Republic Coal Co.	No. 2			2
Republic Coal Co.	No. 3			4
West Virginia Colliery Co.	No. 1			2
West Virginia Colliery Co.	No. 2			2
West Virginia Colliery Co.	No. 3			1
West Virginia Colliery Co.	No. 4			1
Cabin Creek Consolidated Coal Co.	Davis			1
Cabin Creek Consolidated Coal Co.	Cherokee			1
Cabin Creek Consolidated Coal Co.	Red Warrior			1
Cabin Creek Consolidated Coal Co.	Buckeye			1
Cabin Creek Consolidated Coal Co.	Empire			1
Cabin Creek Consolidated Coal Co.	Keystone			2
Cabin Creek Consolidated Coal Co.	Acme			1
Cabin Creek Consolidated Coal Co.	Shamrock			2
Cabin Creek Consolidated Coal Co.	Thistle			1
Cabin Creek Consolidated Coal Co.	Raccoon			2
Cabin Creek Consolidated Coal Co.	Raccoon Splint			1
Cabin Creek Consolidated Coal Co.	Rose			1
Cabin Creek Consolidated Coal Co.	Kayford			2
Cabin Creek Consolidated Coal Co.	United Gas			2
Cabin Creek Consolidated Coal Co.	Belleclare			1
Paint Creek Collieries Co.	Knickerbocker	1		
Paint Creek Collieries Co.	Seranton			2
Paint Creek Collieries Co.	Paint Creek			2
Paint Creek Collieries Co.	Wacomah			1
Paint Creek Collieries Co.	Banner No. 1			1
Paint Creek Collieries Co.	Greenbrier No. 2			1
The Coalburg-Kanawha Coal Co.	"A"			1
Equitable Coal Co.	Coalburg No. 8			2
Standard Splint & Gas Coal Co.	Standard			1
Imperial Colliery Co.	No. 1			1
Imperial Colliery Co.	No. 3			1
Chesapeake Mining Co.	Chesapeake No. 1	1		1
Chesapeake Mining Co.	Chesapeake Nos. 2 & 3	1		1

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
--1909--(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives		
		Steam.	Electric	Comp. Air.
<i>Kanawha County.—Cont.</i>				
Montgomery Coal Co.....	Hickory Nut & Upper Creek.....		1	
Morris Creek Colliery Co.....	Morris Creek.....		1	
Totals.....		3	107	
<i>Nicholas County.</i>				
Kentucky Coal & Lumber Co.....	Dixie.....		1	
Raven Collieries.....	Raven.....		1	
Totals.....			2	
<i>Raleigh County.</i>				
Big Coal Co.....	Dorothy.....		5	
New River Collieries Co.....	Lanark Nos. 3 & 4.....		1	
McKell Coal & Coke Co.....	Oswald.....		2	
McKell Coal & Coke Co.....	Sidney.....		1	
McKell Coal & Coke Co.....	Graham.....		1	
McKell Coal & Coke Co.....	Tamroy.....		2	
Wright Coal & Coke Co.....	No. 1.....		2	
Stonewall Coal & Coke Co.....	Terry.....		1	
Stonewall Coal & Coke Co.....	No. 3.....	1		
Piney Mining Co.....	Piney No. 1.....		2	
Piney Mining Co.....	Piney No. 2.....		1	
Piney Mining Co.....	Piney No. 3.....	1	1	
Raleigh Coal & Coke Co.....	Nos. 1, 2 & 4.....		2	
Raleigh Coal & Coke Co.....	No. 3.....		3	
Raleigh Coal & Coke Co.....	No. 6.....		4	
Blue Jay Lumber Co.....	No. 4.....	1		
Sullivan Coal & Coke Co.....	Sullivan.....		2	
Cranberry Fuel Co.....	Sprague.....		2	
Beckley Coal & Coke Co.....	Beckley.....		2	
Price Hill Fuel Co.....	Price Hill.....		3	
Slab Fork Coal Co.....	Slab Fork. Nos. 1, 2, 3 & 4.....		5	
Totals.....		3	42	
<i>Mercer County.</i>				
Mill Creek Coal & Coke Co.....	Coaldale.....		4	
Mill Creek Coal & Coke Co.....	East, West & Tug River.....	3		
Buckeye Coal & Coke Co.....	North & South.....	2		
Booth-Bowen Coal & Coke Co.....	Booth-Bowen.....	3		
Pocahontas Consolidated Collieries Co., Inc.	Caswell, Hemlock & Elkhorn.....	4		
Louisville Coal & Coke Co.....	Louisville & Goodwill.....		2	
Crystal Coal & Coke Co.....	Crystal.....		1	
American Coal Co. of Alleghany Co.....	Crane Creek Nos. 1 & 2.....		2	
American Coal Co. of Alleghany Co.....	Pinnacle North & South.....		2	
American Coal Co. of Alleghany Co.....	Piedmont Nos. 1 & 2.....	1		
The Thomas Coal Co.....	Thomas.....		1	
The Weyanoke Coal & Coke Co.....	Weyanoke & Elihn.....		2	
Hiawatha Coal & Coke Co.....	Hiawatha.....	1		
Spring Coal Mining Co.....	Spring.....	1		
Wenonah Coal & Coke Co.....	Wenonah.....		1	
Totals.....		15	15	
<i>McDowell County.</i>				
Algoma Coal & Coke Co.....	Piney & Northfork.....		3	
Elk Ridge Coal & Coke Co.....	Elk Ridge.....	2		
Gilliam Coal & Coke Co.....	Gilliam.....		5	
Indian Ridge Coal.....	Indian Ridge.....		2	
Roanoke Coal & Coke Co.....	Roanoke.....		3	
Arlington Coal & Coke Co.....	Arlington.....		3	
Greenbrier Coal & Coke Co.....	Greenbrier.....		4	
McDowell Coal & Coke Co.....	McDowell.....	1	3	
Ashland Coal & Coke Co.....	Ashland & Monitor.....	3		
Pocahontas Consolidated Collieries Co.....	Cherokee.....	2		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>McDowell County.—Con.t.</i>				
Pocahontas Consolidated Collieries Co.....	Lick Branch.....		4	
Pocahontas Consolidated Collieries Co.....	Delta.....		4	
Pocahontas Consolidated Collieries Co.....	Shamokin.....		5	
Pocahontas Consolidated Collieries Co.....	Norfolk & Angle.....		6	
Pocahontas Consolidated Collieries Co.....	West.....		1	
Zenith Coal & Coke Co.....	Zenith Nos. 1 & 2.....		2	
Elkhorn Coal & Coke Co.....	Elkhorn.....	2		
Mohawk Coal & Coke Co.....	Mohawk.....	1		
New River & Pocahontas Cons. Coal Co.....	No. 1.....		5	
New River & Pocahontas Cons. Coal Co.....	No. 2.....		5	
New River & Pocahontas Cons. Coal Co.....	No. 3.....		3	
Virginia-Pocahontas Coal Co.....	Nos. 1 & 11.....		2	
Virginia-Pocahontas Coal Co.....	Nos. 2, East & West.....		2	
Virginia-Pocahontas Coal Co.....	Nos. 3 & 4.....		2	
Virginia-Pocahontas Coal Co.....	No. 5.....		1	
Premier-Pocahontas Collieries Co.....	Nos. 1, 2 & 3.....		2	
Big Sandy Coal Co.....	Big Sandy.....		2	
Big Sandy Coal Co.....	Marytown.....		2	
Twin Branch Mining Co.....	Twin Branch.....		1	
Maier Coal & Coke Co.....	Maier Nos. 1 & 2.....		1	
J. B. B. Collieries Co.....	J. B. B. No. 2.....		1	
J. B. B. Collieries Co.....	J. B. B. No. 3.....		1	
J. B. B. Collieries Co.....	J. B. B. No. 4.....		2	
J. B. B. Collieries Co.....	J. B. B. No. 5.....		2	
Superior-Pocahontas Coal Co.....	No. 1.....		2	
Superior-Pocahontas Coal Co.....	No. 2.....		1	
Superior-Pocahontas Coal Co.....	Helena & Davy Crocket.....		1	
Superior-Pocahontas Coal Co.....	No. 4.....		1	
Jed Coal & Coke Co.....	Jed.....		2	
United States Coal & Coke Co.....	No. 1.....		2	
United States Coal & Coke Co.....	No. 2.....		4	
United States Coal & Coke Co.....	No. 3.....		2	
United States Coal & Coke Co.....	No. 4.....		2	
United States Coal & Coke Co.....	No. 5.....		1	
United States Coal & Coke Co.....	No. 6.....		4	
United States Coal & Coke Co.....	No. 7.....		2	
United States Coal & Coke Co.....	No. 8.....		1	
United States Coal & Coke Co.....	No. 9.....		2	
United States Coal & Coke Co.....	No. 10.....		1	
United States Coal & Coke Co.....	No. 11.....		2	
United States Coal & Coke Co.....	No. 12.....		1	
Black Wolf Coal & Coke Co.....	No. 4.....		3	
Page Coal & Coke Co.....	Nos. 1, 2 & 3.....		4	
Welch Coal & Coke Co.....	Welch.....			1
Middle States Coal & Coke Co.....	No. 11.....		8	
Dixon-Pocahontas Fuel Co.....	North.....		4	
Dixon-Pocahontas Fuel Co.....	South.....		3	
The King Coal Co.....	King.....		1	
The Tidewater Coal & Coke Co.....	Tidewater.....		4	
Peerless Coal & Coke Co.....	Peerless.....	2		
The Empire Coal & Coke Co.....	Empire.....		2	
Shawnee Coal & Coke Co.....	Shawnee.....		2	
Eureka Coal & Coke Co.....	Eureka.....	2		
Pulaski Iron Co.....	Pulaski Nos. 1 & 2.....		7	
Keystone Coal & Coke Co.....	Keystone Nos. 1 & 2.....		3	
Powhatan Coal & Coke Co.....	Powhatan.....		2	
Upland Coal & Coke Co.....	No. 1.....		3	
Houston Coal & Coke Co.....	Nos. 1 & 2.....		3	
Crozer Coal & Coke Co.....	Nos. 1 & 2.....		2	
Turkey Gap Coal & Coke Co.....	Turkey Gap.....	3		
Totals.....		18	160	1
<i>Logan County.</i>				
Stone Branch Coal Co.....	Nos. 1, 2, 3, 4, 5, 6, 7 & 8.....		2	
E. R. Johnson Coal Mining Co.....	Johnson.....		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Logan County.—Con't.</i>				
The Monitor Coal & Coke Co	Monitor & Beechwood		2	
The Yuma Coal & Coke Co	Yuma		4	
Cora Coal & Coke Co	Cora		3	
United States Coal & Oil Co	Island Creek No. 1		3	
United States Coal & Oil Co	Island Creek No. 2		3	
United States Coal & Oil Co	Island Creek No. 3		4	
United States Coal & Oil Co	Island Creek No. 4		3	
United States Coal & Oil Co	Island Creek Nos. 5 & 6		3	
Totals .....	.....		28	
<i>Mingo County.</i>				
Chattaroy Colliery Co	Chattaroy	1		
The Buffalo Collieries Co	Buffalo		2	
Lingohocken Coal Co	Nos. 5, 5 ¹ , 7 & 8	1		
Howard Colliery Co	Howard	1		
Williamson Coal & Coke Co	No. 3	2		
Red Jacket Consolidated Coal & Coke Co..	Rutherford	1	2	
Red Jacket Consolidated Coal & Coke Co..	Logan		1	
Red Jacket Consolidated Coal & Coke Co..	Red Jacket		6	
Red Jacket Consolidated Coal & Coke Co..	Lick Fork	1		
Thacker Coal & Coke Co	No. 2		1	
Thacker Coal & Coke Co	No. 3		2	
Thacker Fuel Co	No. 10		1	
Glen Alum Coal Co.....	Nos. 1 & 2		6	
War Eagle Coal Co	Mephisto	1		
Margaret Mining Co	Margaret			* 1
Totals .....	.....	6	21	1

* Not in use.

TABLE GIVING THE NUMBER OF MINE OPENINGS; NUMBER OF COKE OVENS; ACRES OF COAL WORKED OUT; NUMBER OF MULES AND HORSES USED AT THE MINES; NUMBER OF MEN KILLED AND INJURED, AND KIND OF VENTILATION FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	Number of Mine Openings.	Total Number of Coke Ovens.	Acres of Coal Worked out From Commercial Mines.	Number of Men Killed.	Number of Men Injured Non-Fatally.	Number of Horses and Mules Used at the Mines.	Number of Fans.	Number of Furnaces.	Number of Natural Ventilation.	Fire Baskets, Air Shafts, &c.
Brooke	6	9	82.11	2	1	29	5	1		
Hancock	2		10.66		4	12	1	1		
Marion	27	1,038	388.07	20	53	355	14		3	
Marshall	7		35.35	1	1	27	7			
Ohio	7		26.50			24	6			
Harrison	62	200	335.48	13	68	380	47	8	3	2
Lewis	1		2.04			5		1		
Upshur	4	36	13.62	2	4	4	1	2		
Barbour	18	227	107.25	1	19	100	10	1		3
Monongalia	9	416	47.04		12	31				
Preston	903		141.28	4	28	97	14	5	1	
Taylor	16	30	53.67		4	61	7	3		
Grant	3		26.53		9	22	2	1		
Mineral	23		106.73	5	2	70	13	3	1	3
Randolph	8	520	50.98	1	6	38	4	3		
Tucker	13	773	132.29	3	27	122	9	1		1
Braxton	2		13.07		3	9	1	1		
Gilmer	1		1.81			2		1		
Mason	7		15.16	1	5	38	4	1		
Putnam	11		57.63	3	3	66	9		1	
Clay	4		6.35			8	2			
Fayette	146	2,881	1,290.22	55	221	1,307	107	18	4	1
Kanawha	124	90	685.60	21	56	774	106	10	4	
Boone	4		9.55			11	2	2	1	
Nicholas	7		9.24		2					
Greenbrier	1		6.73			4				
Raleigh	43		329.66	18	86	322	31	4	1	
Mercer	30	1,846	334.11	13	84	388	22	4		
McDowell	113	10,155	1,756.71	181	275	1,117	97	7	2	
Wyoming	1									
Lincoln	3		7.02			10		2		
Logan	29		272.73	11	16	135	18	6		
Mingo	45		244.17	9	30	304	12	15	1	
Wayne	1		8.24			9		1		
Totals	798	19,211	6,608.00	384	1,032	5,901	553	103	27	11

GENERAL SUMMARY OF INSPECTIONS BY DISTRICTS JULY 1st, 1908
TO JUNE 30th, 1909.

DISTRICTS.	No. of Inspections.	No. of Visits.	Totals.
No. 1.....	142	30	172
No. 2.....	143	71	214
No. 3.....	96	18	114
No. 4.....	* 114	27	141
No. 5.....	* 89	23	112
No. 6.....	* 182	25	207
No. 7.....	* 119	73	192
No. 8.....	* 162	37	199
No. 9.....	* 152	75	227
No. 10.....	* 135	30	165
No. 11.....	* 192	37	229
No. 12.....	108	21	129
Totals.....	1,634	467	2,101

* Included in	4th District.	15	Inspections by	Special Inspectors.	
" "	5th "	2	" "	District	No. 7.
" "	6th "	5	" "	Special	" "
" "	6th "	1	" "	District	No. 9.
" "	7th "	1	" "	" "	" 8.
" "	7th "	2	" "	" "	" 9.
" "	7th "	1	" "	" "	" 5.
" "	8th "	48	" "	Special Inspectors.	
" "	8th "	14	" "	District	No. 5.
" "	8th "	2	" "	" "	" 12.
" "	8th "	5	" "	" "	" 9.
" "	8th "	2	" "	" "	" 7.
" "	8th "	4	" "	" "	" 6.
" "	8th "	15	" "	" "	" 8.
" "	8th "	6	" "	Special	" "
" "	10th "	5	" "	" "	" *
" "	10th "	28	" "	District	" 12.
" "	10th "	2	" "	" "	" 6.
" "	10th "	5	" "	" "	" 7.
" "	10th "	7	" "	" "	" 5.
" "	11th "	21	" "	" "	" 5.
" "	11th "	17	" "	" "	" 7.
" "	11th "	18	" "	" "	" 12.
" "	11th "	8	" "	" "	" 6.
" "	11th "	3	" "	" "	" 10.

*GENERAL SUMMARY OF INSPECTIONS BY COUNTIES JULY 1st, 1908
TO JUNE 30th, 1909.*

COUNTY.	No. of Inspections.	No. of Visits.	Totals.
Brooke.....	9	1	10
Hancock.....	2	2	4
Marion.....	111	22	133
Marshall.....	11	4	15
Ohio.....	9	1	10
Harrison.....	138	63	201
Lewis.....	1	1	2
Upshur.....	4	7	11
Barbour.....	26	7	33
Monongalia.....	12	4	16
Preston.....	34	6	40
Taylor.....	24	1	25
Grant.....	7	3	10
Mineral.....	42	19	61
Randolph.....	25	3	28
Tucker.....	40	2	42
Braxton.....	2		2
Gilmer.....	1		1
Mason.....	14	5	19
Putnam.....	16	7	23
Clay.....	5	3	8
Fayette.....	311	125	436
Kanawha.....	257	49	306
Boone.....	2		2
Raleigh.....	88	34	122
Nicholas.....	7	10	17
Greenbrier.....	1		1
Mercer.....	64	13	77
McDowell.....	263	54	317
Lincoln.....	4	1	5
Logan.....	48	7	55
Mingo.....	55	12	67
Wayne.....	1	1	2
Totals.....	1,634	467	2,101

NUMBER OF INSPECTIONS—DISTRICT No. 1.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Brooke County.</i>			
A. Gilchrist & Sons Co.....	Gilchrist	1	.....
La Belle Coal Co.....	Lewis No. 1.....	2	.....
Beech Bottom Coal Co.....	Beech Bottom.....	1	1
Lewis-Findley Coal Co.....	Locust Grove.....	2	.....
La Belle Iron Works.....	La Belle Shaft.....	1	.....
Rex Carbon Coal Co.....	Rex Carbon No. 1.....	2	.....
Totals.....		9	1
<i>Hancock County.</i>			
The Marquet Coal Co.....	No. 4.....	1	1
The Marquet Coal Co.....	No. 5.....	1	1
Totals.....		2	2
<i>Marion County.</i>			
Fairmont Coal Co.....	Murray.....	5	.....
Fairmont Coal Co.....	Montana.....	4	1
Fairmont Coal Co.....	Barnesville Shaft.....	4	1
Fairmont Coal Co.....	New England.....	4	2
Fairmont Coal Co.....	Gaston.....	4	3
Fairmont Coal Co.....	Monongah No. 2 or 5.....	4	.....
Fairmont Coal Co.....	Monongah No. 3.....	2	.....
Fairmont Coal Co.....	Monongah No. 6.....	7	1
Fairmont Coal Co.....	Monongah No. 8.....	6	1
Fairmont Coal Co.....	Shaver Nos. 1 & 2.....	7	.....
Fairmont Coal Co.....	Pennois.....	4	1
Fairmont Coal Co.....	Anderson.....	4	.....
Fairmont Coal Co.....	Highland.....	5	1
Fairmont Coal Co.....	Middleton.....	4	.....
Fairmont Coal Co.....	Chiefton.....	4	.....
Fairmont Coal Co.....	Hutchinson.....	4	.....
Georges' Creek Coal & Iron Co.....	Chatham No. 1.....	5	3
New Central Coal Co.....	Stafford.....	4	1
Federal Coal & Coke Co.....	Federal.....	7	3
The Virginia & Pittsburg Coal & Coke Co.....	Kingmont.....	4	.....
Parker Run Coal & Coke Co.....	Parker Run.....	4	1
Harry B. Coal Co.....	Harry Nos. 1 & 2.....	5	.....
Kilarm Coal & Coke Co.....	Kilarm No. 1.....	3	.....
Kilarm Coal & Coke Co.....	Kilarm No. 2.....	1	1
Pittsburg Steam Coal Co.....	Elizabeth.....	4	.....
Catawba Coal Co.....	Catawba.....	2	1
Dakota Coal & Coke Co.....	Dakota Shaft.....		1
Totals.....		111	22
<i>Marshall County.</i>			
Hitchman Coal & Coke Co.....	Hitchman.....	3	.....
Boggs Run Mining & Manufacturing Co.....	Boggs Run.....	1	1
Wheeling Steel & Iron Co.....	Benwood.....	1	.....
Glendale Coal Co.....	Glendale.....	1	1
Mound Coal Co.....	Mound.....	3	.....
Panama Coal Mining Co.....	Panama.....		1
Bituminous Coal Co. of America.....	Bituminous No. 1.....	2	1
Totals.....		11	4
<i>Ohio County.</i>			
Richland Coal Co.....	Richland.....	1	1
Elm Grove Coal Co.....	Elm Grove.....	1	.....
Whitaker-Glessner Co.....	Carter or Whitaker.....	2	.....
Reynann Brewing Co.....	Manchester.....	2	.....
La Belle Iron Works.....	La Belle Drift.....	1	.....
La Belle Iron Works.....	La Belle Shaft.....	2	.....
Totals.....		9	1

NUMBER OF INSPECTIONS—DISTRICT No. 2.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Harrison County.</i>			
Clarksburg Fuel Co.	Fall Run	2	1
Clarksburg Fuel Co.	Pinnickinnick	1	2
Clarksburg Fuel Co.	O'Neil	2	1
Clarksburg Fuel Co.	Dixie	2	
Clarksburg Fuel Co.	Two Lick	2	
Clarksburg Fuel Co.	Interstate	2	1
Clarksburg Fuel Co.	Despard No. 1	4	2
Fairmont Coal Co.	Enterprise	2	
Fairmont Coal Co.	Viropa	2	1
Fairmont Coal Co.	Riverdale	2	1
Fairmont Coal Co.	Ehlen	2	1
Fairmont Coal Co.	Ehlen No. 3	2	1
Fairmont Coal Co.	Solon	2	
Fairmont Coal Co.	Gypsy No. 5	3	2
Fairmont Coal Co.	Gypsy No. 7	3	
Fairmont Coal Co.	Meadow Brook No. 1	3	1
Fairmont Coal Co.	Meadow Brook No. 2	3	
Fairmont Coal Co.	Globe	2	
Fairmont Coal Co.	Dunham	2	1
Fairmont Coal Co.	Ocean	2	
Fairmont Coal Co.	Columbia	2	1
Fairmont Coal Co.	Robinson Run	3	1
Fairmont Coal Co.	Reynoldsville	1	6
Fairmont Coal Co.	Lynch	2	1
Fairmont Coal Co.	West Fork	1	1
Pittsburg & Fairmont Fuel Co.	Perry No. 1	2	1
Pittsburg & Fairmont Fuel Co.	Perry No. 2	2	
Pittsburg & Fairmont Fuel Co.	Coaling Station	2	
Pittsburg & Fairmont Fuel Co.	Pooz	3	
Pittsburg & Fairmont Fuel Co.	Lucas	3	
Virginia-Maryland Coal Corporation	Willard No. 1	4	2
Virginia-Maryland Coal Corporation	Willard No. 2	4	
Cook Coal & Coke Co.	Girard No. 1	3	1
Cook Coal & Coke Co.	No. 2 at Girard No. 1	4	1
Corona Coal & Coke Co.	Harold	3	
Central Fairmont Coal Co.	Snake Hill	2	
Vincent Coal Co.	Grasselli	3	
Meadow Brook Coal & Coke Co.	Erie	3	
Harrison County Coal Co.	Overholt	3	3
Hero Coal & Coke Co.	Hero	3	3
Blue Ridge Coal Co.	Thompson	3	
Rose-Bud Coal Co.	Rose-Bud	2	
Monroe Colliery Co.	Sylvester	2	1
National Coal Co.	Dola	2	
Fayette Coal Co.	Fayette	2	
Short Line Coal Co.	Girard No. 2	2	
Fairmont & Baltimore Coal & Coke Co.	Fairmore	2	1
Madeira-Hill-Clark Coal Co.	Goff	2	
Madeira-Hill-Clark Coal Co.	Waldo	2	5
Madeira-Hill-Clark Coal Co.	Randolph	2	1
Madeira-Hill-Clark Coal Co.	New Chieftain	1	3
Southwestern Coal Co.	Miller No. 1	1	1
Southwestern Coal Co.	Miller No. 2	2	2
O'Gara Coal Mining Co.	O'Gara	2	5
Pennsylvania-West Virginia Coal Co.	Phoenix	1	1
Pitcairn Coal Co.	Pitcairn	2	1
Marshall Coal Co.	Marshall	1	
Cook & Hart Coal Co.	Cork	2	
Hutchinson Fuel & Supply Co.	Byron Nos. 1 & 2	1	2
Jane Lew Coal & Coke Co.	Fulmer No. 1	1	
Lamberts' Run Coal Co.	Clauson	3	3
Haywood Coal Mining Co.	Monroe	4	
Marion Gas Coal Co.	Bingamon		1
Totals		138	63

NUMBER OF INSPECTIONS—DISTRICT No. 2—Continued.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Lewis County.</i>			
Jacksonville Coal & Coke Co.....	Sarah B. No. 3.....	1	1
Totals.....		1	1
<i>Upshur County.</i>			
Red Rock Fuel Co.....	Red Rock Nos. 1 & 2 ..	4	2
Newcomer Coal Co.....	Newcomer.....		2
Buckhannon River Coal Co.....	Florence.....		2
Pennsylvania Consolidated Coal Co	Penco.....		1
Totals.....		4	7

NUMBER OF INSPECTIONS—DISTRICT No. 3.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Barbour County.</i>			
Meriden Coal Mining Co	Meriden Nos. 1, 2, 3, 4 & 5	2	1
Tygart's River Coal Co	Arden	3	
Fairmont Coal Co	Berryburg Nos. 1 & 2	4	
Laurel Creek Coal Co	Laurel Creek	2	
The Century Coal Co. of West Virginia	Century No. 1	4	
Grafton Fuel Co	Lillian Nos. 1, 2 & 3	4	
Davis Coal & Coke Co	Weaver No. 3	2	
Miller Coal & Coke Co	Sara	1	2
Davis Colliery Co	Junior No. 4		3
Midland Coal & Coke Co	Midland	2	
Humphreys Colliery Co	Humphreys	2	
Luella Coal Co	Luella		1
Totals		26	7
<i>Monongalia County.</i>			
Opekiska Coal & Coke Co	Opekiska		1
Fairmont Coal Co	Beechwood	3	
Elkins Coal & Coke Co	Richard	2	1
Elkins Coal & Coke Co	Sabraton (No. 5)	1	
Connellsville Basin Coke Co	Derry Nos. 1, 2, 3 & 4	3	
Great Scott Coal & Coke Co	Great Scott No. 1	2	1
Grant Coal Co	Grant	1	
The Low Coal Co	Big Falls		1
Totals		12	4
<i>Preston County.</i>			
Austen Coal & Coke Co	Austen Nos. 1 & 2	4	1
Hamilton Coal & Coke Co	Newburg Shaft	4	1
Gorman Coal & Coke Co	No. 2	3	
Gorman Coal & Coke Co	West End No. 1	2	
Irona Coal Co	Irona Nos. 1 & 2	4	
Merchants Coal Co	Tunnelton No. 2	1	
Kingwood Coal Co	Howesville	2	
Hite Coal & Coke Co	Dixie	1	
Orr Coal & Coke Co	Vulcan	1	
Manufacturers Coal & Coke Co	Victoria Nos. 1 & 2	2	1
Elkins Coal & Coke Co	Bretz		1
Elkins Coal & Coke Co	Kingwood No. 4 (1)	2	1
Elkins Coal & Coke Co	Kingwood No. 4 (2)	2	1
Elkins Coal & Coke Co	Masontown No. 2 of No. 3	1	
Elkins Coal & Coke Co	Masontown No. 6	2	
Preston County Coke Co	Cascade	3	
Totals		34	6
<i>Taylor County.</i>			
Grafton Coal & Coke Co	Sandlick	2	
Pittsvein Coal Co	Flemington Nos. 2 & 4	3	1
T. B. Davis	T. B. Davis	2	
McGraw Coal Co	New York No. 1	2	
Rosemont Coal Co	Rosemont	3	
Maryland Coal Co	Wendel Nos. 1, 2, 3, 4 & 5	7	
Winona Coal & Coke Co	Winona No. 1	2	
Johnson Brothers Coal Co	Cecil	1	
Harrison Coal Co	Harrison	2	
Totals		24	1

NUMBER OF INSPECTIONS—DISTRICT No. 4.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	Nb. of Visits.
<i>Grant County.</i>			
Davis Coal & Coke Co.....	Henry No. 22.....	4	2
Buffalo Creek Cumberland Coal Co.....	Buffalo Creek.....	2	.....
Cottage Street Coal Co.....	Cottage Street.....	1	1
Totals.....		7	3
<i>Mineral County.</i>			
Davis Coal & Coke Co.....	Elk Garden No. 6.....	3	1
Davis Coal & Coke Co.....	Wabash No. 9.....	2	.....
Davis Coal & Coke Co.....	Tyson No. 10.....	3	1
Davis Coal & Coke Co.....	Kittanning No. 14.....	3	.....
Davis Coal & Coke Co.....	Kittanning No. 15.....	2	1
Davis Coal & Coke Co.....	Ott No. 20.....	3	2
Davis Coal & Coke Co.....	Montgomery Run No. 19.....	3	1
Davis Coal & Coke Co.....	No. 50.....	2	1
Davis Coal & Coke Co.....	No. 51.....	3	.....
Abrams Creek Coal & Coke Co.....	Oakmont No. 1.....	3	.....
Piedmont Brick & Coal Co.....	Karr or Piedmont No. 1.....	1	1
Piedmont & Potomac Coal Co.....	Virginia No. 2.....	2	1
Masteller Coal Co.....	Hampshire 4-ft.....	3	.....
Masteller Coal Co.....	New Creek or 6-ft.....	.....	3
Smith Coal Co.....	Smith No. 1.....	3	.....
Gleason Coal & Coke Co.....	Gleason No. 1.....	1	1
Gleason Coal & Coke Co.....	Gleason No. 2.....	2	.....
Big Vein Coal Co. of West Virginia.....	Shaw or 4-ft.....	1	1
Big Vein Coal Co. of West Virginia.....	Big Vein.....	.....	1
Denman Coal Co.....	Denman No. 3.....	1	1
Glade Run Coal & Coke Co.....	Sarah.....	.....	2
Emory Run Coal Co.....	Emory Run.....	.....	1
Western Maryland Coal Co.....	Blaine Nos. 2, 3 & 4.....	1	.....
Totals.....		42	19
<i>Randolph County.</i>			
Davis Coal & Coke Co.....	Weaver No. 1.....	5	.....
Davis Coal & Coke Co.....	Weaver No. 2.....	5	.....
Davis Coal & Coke Co.....	Leiter No. 5.....	.....	2
Davis Colliery Co.....	Coalton No. 1.....	3	.....
Davis Colliery Co.....	Sivad No. 2.....	2	1
Davis Colliery Co.....	Harding No. 3.....	4	.....
Davis Colliery Co.....	West Harding No. 5.....	3	.....
W. H. Green, Lessee.....	Klondyke No. 1.....	3	.....
Totals.....		25	3
<i>Tucker County.</i>			
Cumberland Coal Co.....	No. 1.....	5	.....
Cumberland Coal Co.....	No. 5.....	6	.....
Davis Coal & Coke Co.....	Thomas No. 23.....	3	.....
Davis Coal & Coke Co.....	Pendleton Run.....	3	.....
Davis Coal & Coke Co.....	Thomas No. 25.....	4	.....
Davis Coal & Coke Co.....	Coketon No. 26.....	5	.....
Davis Coal & Coke Co.....	Thomas No. 34.....	2	.....
Davis Coal & Coke Co.....	Coketon No. 35.....	3	.....
Davis Coal & Coke Co.....	Coketon No. 36.....	4	.....
Davis Coal & Coke Co.....	Coketon No. 37.....	3	1
Beacon Coal & Coke Co.....	Beacon.....	1	.....
Gatzmer Coal & Coke Co.....	Gatzmer No. 1.....	.....	2
Totals.....		40	3

NUMBER OF INSPECTIONS—DISTRICT No. 5.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Braxton County</i>			
Davis Colliery Co.....	Bower No. 10.....	1	
Davis Colliery Co.....	Copen No. 11.....	1	
Totals.....		2	
<i>Gilmer County.</i>			
Cosmopolitan Coal & Coke Co.....	Filmer No. 1.....	1	
Totals.....		1	
<i>Mason County.</i>			
Mason City Coal Mining Co.....	Linden.....	2	2
Consumers' Coal & Mining Co.....	Camden.....	3	
Beech Grove Coal Co.....	Beech Grove.....	3	
The Liverpool Salt & Coal Co.....	Jackson.....	2	2
Hartford Coal Mining Co.....	Hartford.....	3	
Dixie Coal Works.....	Dixie.....	1	1
Totals.....		14	5
<i>Putnam County.</i>			
Plymouth Coal & Mining Co.....	Manilla.....	2	
Plymouth Coal & Mining Co.....	California.....	2	
The Otto Marmet Coal & Mining Co.....	Big Otto No. 1.....	2	1
The Otto Marmet Coal & Mining Co.....	Big Otto No. 2.....	2	1
The Otto Marmet Coal & Mining Co.....	Big Otto No. 3.....	2	1
Black Betsey Coal & Mining Co.....	Black Betsey No. 1.....	2	1
Black Betsey Coal & Mining Co.....	Black Betsey No. 2.....	2	3
Oak Forest Coal & Mining Co.....	Oak Forest.....	2	
Totals.....		16	7
<i>Clay County.</i>			
Elk Manor Coal Co.....	Elk Manor.....	1	
Elk River Coal & Lumber Co.....	Dundon.....	1	
Totals.....		2	
<i>Fayette County.—(part).</i>			
Sunday Creek Co.....	No. 111.....	3	2
Sunday Creek Co.....	No. 112.....	2	1
Sunday Creek Co.....	No. 114.....	2	1
Sunday Creek Co.....	No. 115.....	2	
The Columbus Iron & Steel Co.....	Nos. 1 & 2.....	1	
Kanawha Gas Coal Co.....	Kanawha Gas.....	2	
Kanawha Gas Coal Co.....	Eagle.....	1	1
W. R. Johnson & Co.....	Oakland.....	2	
Boomer Coal & Coke Co.....	No. 1.....	1	1
Boomer Coal & Coke Co.....	No. 2 North.....	2	1
Boomer Coal & Coke Co.....	No. 2 South.....	2	1
Boomer Coal & Coke Co.....	No. 3.....	2	1
Totals.....		22	9

NUMBER OF INSPECTIONS—DISTRICT No. 5—Continued.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Kanawha County.—(part).</i>			
Blue Creek Coal & Land Co.....	Wills Hollow Nos. 1 & 2.....	2	.....
Blue Creek Coal & Land Co.....	Blakeley No. 3.....	1	.....
Roderick Coal Co.....	Roderick.....	1	.....
The Campbells Creek Coal Co.....	Nos. 1 & 2.....	2	.....
The Campbells Creek Coal Co.....	Nos. 3 & 4.....	5	.....
Quincy Coal Co.....	Quincy No. 1.....	2	.....
Quincy Coal Co.....	Quincy No. 2.....	1	.....
Sunday Creek Co.....	No. 101.....	1	.....
Sunday Creek Co.....	No. 104.....	1	.....
Sunday Creek Co.....	No. 105.....	1	.....
Sunday Creek Co.....	No. 109.....	1	.....
The New Cedar Grove Coal & Brick Co.....	Boyd.....	1	.....
Kellys Creek Colliery Co.....	No. 1.....	1	.....
Kellys Creek Colliery Co.....	No. 3.....	2	.....
Kellys Creek Colliery Co.....	No. 31.....	2	.....
Hughes Creek Coal Co.....	Hugheston No. 2.....	1	1
Hughes Creek Coal Co.....	Hugheston No. 3.....	2	1
Cannelton Coal Co.....	Cannelton No. 2.....	2	.....
The Marmet Coal Co.....	Monarch No. 1.....	1	.....
The Marmet Coal Co.....	Monarch No. 2.....	1	.....
Wallace Coal Co.....	Belle.....	1	.....
Totals.....		32	2

NUMBER OF INSPECTIONS—DISTRICT No. 6.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Kanawha County.—(part).</i>			
The Marmet Coal Co.....	Butler.....	2	
The Marmet Coal Co.....	Lens Creek No. 2.....	3	1
The Marmet Coal Co.....	Marmet No. 5.....	1	1
Olcott Coal & Iron Co.....	Olcott No. 1.....	2	1
Olcott Coal & Iron Co.....	Olcott No. 2.....	1	2
Peerless Coal Co.....	Peerless.....	4	
Winifrede Coal Co.....	Gas.....	3	2
Winifrede Coal Co.....	North Pick.....	3	2
Winifrede Coal Co.....	North Machine.....	3	
Winifrede Coal Co.....	West.....	3	1
Dry Branch Coal Co.....	Gas No. 1.....	2	1
Dry Branch Coal Co.....	Coalburg No. 2.....	5	
Dry Branch Coal Co.....	Belmont No. 3.....	5	1
Coalburg Colliery Co.....	Ronda.....	3	
Wyatt Coal Co.....	Oakley.....	4	
Wyatt Coal Co.....	Berlin.....	4	
Wyatt Coal Co.....	Horton No. 1.....	1	
Wyatt Coal Co.....	Horton No. 2.....	3	
Persinger Coal Co.....	Wilton.....	2	
Lamont Mining Co.....	La Mont No. 1.....	3	
Lamont Mining Co.....	La Mont No. 2.....	1	
Lamont Mining Co.....	La Mont No. 3.....	3	1
The Stephenson & Holley Coal & Coke Co.....	Stephenson No. 2.....	4	1
The Stephenson & Holley Coal & Coke Co.....	No. 5.....	2	
Wake Forest Mining Co.....	Wake Forest.....	4	
Carbon Coal Co.....	North.....	3	
Carbon Coal Co.....	South.....	3	1
Carbon Coal Co.....	No. 5 or Splint.....	4	1
Republic Coal Co.....	No. 1.....	3	1
Republic Coal Co.....	No. 2.....	3	
Republic Coal Co.....	No. 3.....	2	
West Virginia Colliery Co.....	No. 1.....	5	
West Virginia Colliery Co.....	No. 2.....	2	
West Virginia Colliery Co.....	No. 3.....	2	
West Virginia Colliery Co.....	No. 4.....	3	
Cabin Creek Consolidated Coal Co.....	Davis.....	4	
Cabin Creek Consolidated Coal Co.....	Cherokee 7.....	3	
Cabin Creek Consolidated Coal Co.....	Caledonia.....	3	
Cabin Creek Consolidated Coal Co.....	Red Warrior.....	3	1
Cabin Creek Consolidated Coal Co.....	Buckeye.....	5	
Cabin Creek Consolidated Coal Co.....	Empire.....	3	
Cabin Creek Consolidated Coal Co.....	Black Tulip.....	3	
Cabin Creek Consolidated Coal Co.....	Keystone.....	3	
Cabin Creek Consolidated Coal Co.....	Acme.....	3	
Cabin Creek Consolidated Coal Co.....	Shamrock.....	3	1
Cabin Creek Consolidated Coal Co.....	Thistle.....	3	
Cabin Creek Consolidated Coal Co.....	Raccoon Gas.....	2	
Cabin Creek Consolidated Coal Co.....	Raccoon Splint.....	4	
Cabin Creek Consolidated Coal Co.....	Rose.....	3	
Cabin Creek Consolidated Coal Co.....	Kayford Nos. 1 and 2.....	6	2
Cabin Creek Consolidated Coal Co.....	Holly.....	4	
Cabin Creek Consolidated Coal Co.....	Quarrier.....	3	
Cabin Creek Consolidated Coal Co.....	United Gas.....	3	1
Cabin Creek Consolidated Coal Co.....	United Splint.....	2	1
Cabin Creek Consolidated Coal Co.....	Belleclare.....	3	
Cabin Creek Consolidated Coal Co.....	Ruby.....	4	1
Paint Creek Collieries Co.....	Reynolds.....	3	
Paint Creek Collieries Co.....	Knickerbocker.....	3	1
Chelyan Fuel Co.....	Chelyan.....	1	
Totals.....		178	25
<i>Boone County.</i>			
The Spruce River Coal Co.....	Ramage Nos. 1 and 2.....	1	
The Coal River Co.....	No. 1.....	1	
Total.....		2	
<i>Raleigh County.</i>			
Big Coal Co.....	Dorothy.....	2	
Total.....		2	

NUMBER OF INSPECTIONS—DISTRICT No. 7.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Clay County.</i>			
Carter Coal Co	Carter	3	1
Kentucky Coal & Lumber Co	Scott		2
Totals		3	3
<i>Fayette County—(part).</i>			
Economy Fuel Co	Mud Soek	1	
Paint Creek Collieries Co	Hickory Camp	1	2
Eureka Colliery Co	Eureka No. 13	2	1
Eureka Colliery Co	Eureka No. 14	2	3
W. R. Johnson	Eagle No. 1	1	2
W. R. Johnson	Splint Nos. 5 & 6	4	
Mecca Coal & Coke Co	Mecca No. 2	2	2
Mecca Coal & Coke Co	Mecca No. 5, Old	1	2
Mecca Coal & Coke Co	Mecca No. 5, New	1	3
Carver Brothers Co	No. 2	2	
Carver Brothers Co	No. 3	1	
Carver Brothers Co	No. 5 Splint	1	
Carver Brothers Co	Diamond No. 4	2	
Carver Brothers Co	Diamond (5 drifts)	2	
St. Clair Colliery Co	Eagle	1	1
M. B. Coal & Coke Co	Kimberly		1
M. B. Coal & Coke Co	Columbia No. 2		1
M. B. Coal & Coke Co	Columbia No. 3	2	2
M. B. Coal & Coke Co	Elk Ridge No. 1	2	1
M. B. Coal & Coke Co	Elk Ridge No. 2	2	
The Mt. Carbon Co., L't'd	Vulcan (and South)	2	
Great Kanawha Colliery Co	Brewster	1	6
Great Kanawha Colliery Co	Edwards	2	3
Great Kanawha Colliery Co	Digby	1	5
Loup Creek Colliery Co	Ansted Nos. 3, 4, 5, 6, 7, 8	4	1
Loup Creek Colliery Co	Eagle	3	1
Herbert Collieries	Herberton	5	
Fort Defiance Coal & Coke Co	Fort Defiance	3	1
Lynchburg Colliery Co	Lynchburg	3	
Gamoca Coal Co	No. 2 Gas	1	
Gamoca Coal Co	No. 2 Splint	2	
Deitz Colliery Co	Deitz No. 2 Gas	2	
Deitz Colliery Co	Deitz No. 5 Splint	2	
Totals		61	38
<i>Kanawha County—(part).</i>			
Paint Creek Collieries Co	Scranton	2	
Paint Creek Collieries Co	Paint Creek	2	2
Paint Creek Collieries Co	Wacomah	3	
Paint Creek Collieries Co	Wacomah No. 7	1	
Paint Creek Collieries Co	Banner No. 1	1	2
Paint Creek Collieries Co	Banner No. 2	1	2
Paint Creek Collieries Co	Detroit	2	1
Paint Creek Collieries Co	Morton No. 1		1
Paint Creek Collieries Co	Grose No. 1	2	
Paint Creek Collieries Co	Grose No. 2	3	2
Paint Creek Collieries Co	Greenbrier No. 2	1	
Paint Creek Collieries Co	Greenbrier No. 3	1	
Coalburg-Kanawha Coal Co	Klondike	1	
Coalburg-Kanawha Coal Co	No. 4 (Coalburg)	2	
Southwestern Splint Fuel Co	Black Cat (Coalburg)	3	
Winifrede Coal Co	New Coalburg	2	1
Equitable Coal Co	No. 8 Coalburg	1	
Standard Splint & Gas Coal Co	Standard	2	1
Imperial Colliery Co	Imperial No. 1	1	2
Imperial Colliery Co	Imperial No. 2		2
Imperial Colliery Co	Imperial No. 3	2	1
Chesapeake Mining Co	Chesapeake No. 1	3	
Chesapeake Mining Co	Chesapeake No. 2	4	2
Chesapeake Mining Co	Chesapeake No. 3	1	
Montgomery Coal Co	Hickory Nut		2
Montgomery Coal Co	Possum Hollow	2	
Montgomery Coal Co	Line Tree	1	
Montgomery Coal Co	Upper Creek	2	
Morris Creek Coal Co	Morris Creek	1	1
Totals		47	22

NUMBER OF INSPECTIONS—DISTRICT No. 7—Continued.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Nicholas County.</i>			
The Columbus Coal Co	Vaughan No. 1		1
The Columbus Coal Co	Vaughan No. 2		1
Bell Creek Coal Co.	Bell Creek	1	2
Kentucky Coal & Lumber Co	Mt. Carmel	1	1
Kentucky Coal & Lumber Co	Cambria		2
Kentucky Coal & Lumber Co	National	1	1
Arminius Coal Co	Arminius	1	1
Raven Collieries	Raven	1	1
Saxman Coal Co.	Saxman	1	
Pardee & Curtin Lumber Co	Panther Creek	1	
Totals		7	10
<i>Greenbrier County.</i>			
Elk Lick Coal Co.	Lost Flat	1	
Total		1	

NUMBER OF INSPECTIONS—DISTRICT No. 8.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Fayette County—(part).</i>			
Mill Creek Colliery Co.	Mill Creek	6	4
The Gauley Mountain Coal Co.	Nova Scotia	3	
The Gauley Mountain Coal Co.	Turkey Creek	3	
Gaymont Colliery Co.	Gaymont	3	
Sunbury Coal & Coke Co.	Sunnyside	3	2
Beury-New River Coal Co.	Elmo	3	
Michigan Coal Co.	Michigan	3	
Manufacturers & Consumers Coal Co.	Newlyn	3	
The Fayette Coal & Coke Co.	Fayette	4	
Brown Coal Co.	Brown	2	
Nuttallburg Coal & Coke Co.	Nuttallburg	3	1
Holliday Coal Co.	Keeneys Creek	3	
Keeneys Creek Colliery Co.	Smokeless	2	1
Keeneys Creek Colliery Co.	No. 2	3	
Ballinger Coal Co.	Ballinger No. 1	2	
Ballinger Coal Co.	Ballinger No. 2	2	
Rothwell Coal Co.	Dubree	2	
Blume Coal & Coke Co.	Blume	3	
Lookout Coal & Coke Co.	Lookout	3	
Moseley & Walker	No. 1	1	
Moseley & Walker	No. 2	1	
Moseley & Walker	No. 3	2	
Fire Creek Collieries Co.	Kohinoor		2
Fire Creek Coal & Coke Co.	Fire Creek	2	
Fire Creek Coal & Coke Co.	Buffalo	1	
Beury Brothers Coal & Coke Co.	Echo	3	
Beury Brothers Coal & Coke Co.	Klondyke	2	
Big Bend Coal Co.	Big Bend	2	
Stone Cliff Coal & Coke Co.	Stone Cliff	1	1
Beechwood Coal & Coke Co.	No. 1	1	
Beechwood Coal & Coke Co.	No. 2	1	
Alaska Coal & Coke Co.	Alaska		1
Ephraim Creek Coal & Coke Co.	Ephraim C'k & Buffalo	1	
Ridgeview Coal Co.	Ridgeview	3	1
Laurel Creek Coal Co.	Laurel	2	1
Glendale Colliery Co.	Glendale	1	
Quinnimont Coal Co.	Big Q	3	2
Quinnimont Coal Co.	Lick Branch	2	2
Greenwood Coal Co.	Greenwood	1	
Hemlock Hollow Coal & Coke Co.	Hemlock	2	
New River & Pocahontas Cons. Coal Co.	Layland No. 1	1	
New River & Pocahontas Cons. Coal Co.	Layland No. 2	2	
New River & Pocahontas Cons. Coal Co.	Layland No. 3	2	
New River & Pocahontas Cons. Coal Co.	Minden No. 1	2	2
New River & Pocahontas Cons. Coal Co.	Minden No. 2	4	1
New River & Pocahontas Cons. Coal Co.	Minden No. 3	2	1
New River & Pocahontas Cons. Coal Co.	Minden No. 4	4	1
New River & Pocahontas Cons. Coal Co.	Minden No. 5	4	2
New River Valley Coal Co.	Bachman	4	
Maris Branch Coal Co.	Whitney	3	
The Low Moor Iron Co. of Virginia	Kay Moor No. 1	4	
The Low Moor Iron Co. of Virginia	Kay Moor No. 2	3	1
Elverton Coal & Coke Co.	Elverton	2	2
South Side Co.	South Side	1	1
The Thurmond Coal Co.	Concho No. 1	4	
The Thurmond Coal Co.	Erskine No. 2	3	1
The New River Collieries Co.	Brooklyn	4	3
The New River Collieries Co.	Red Ash	11	1
The New River Collieries Co.	Rush Run	12	3
Totals		162	37

NUMBER OF INSPECTIONS—DISTRICT No. 9.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Fayette County—(part).</i>			
The New River Collieries Co.....	Sun Nos. 1, 2 & 3.....	13	.....
The Dungen Coal Co.....	Dungen No. 1.....	.....	2
The Dungen Coal Co.....	Dungen No. 2.....	.....	1
Newlyn Coal Co.....	Newlyn.....	1	1
Meadow Fork Coal Co.....	Meadow Fork.....	.....	2
The Star Coal & Coke Co.....	Star.....	4	1
Laura Mining Co.....	Laura.....	2	1
Nichol Colliery Co.....	Nichol.....	4	4
McKell Coal & Coke Co.....	Killsyth No. 7.....	1	1
Harvey Coal & Coke Co.....	Harvey No. 1.....	1	1
Harvey Coal & Coke Co.....	Harvey No. 2.....	1	.....
Prudence Coal Co.....	Layman.....	.....	1
Collins Colliery Co.....	Collins No. 1.....	1	2
Collins Colliery Co.....	Collins Nos. 2 & 3.....	2	.....
White Oak Fuel Co.....	Wingrove.....	3	1
White Oak Fuel Co.....	Scarbrow.....	3	.....
White Oak Fuel Co.....	Whipple.....	3	3
White Oak Fuel Co.....	Carlisle.....	2	1
White Oak Fuel Co.....	Oakwood.....	3	1
Stuart Colliery Co.....	Parral.....	8	2
Stuart Colliery Co.....	Beech Creek.....	1	1
Stuart Colliery Co.....	Stuart.....	7	7
Dunn Loop Coal & Coke Co.....	Dunn Loop No. 1.....	1	1
Dunn Loop Coal & Coke Co.....	Dunn Loop No. 2.....	1	3
Dunn Loop Coal & Coke Co.....	Dunn Loop No. 3.....	1	1
Macdonald Colliery Co.....	Macdonald.....	1	.....
Sugar Creek Coal & Coke Co.....	Sugar Creek.....	1	2
Price Hill Fuel Co.....	Sherwood.....	1	.....
Turkey Knob Coal Co.....	Turkey Knob.....	.....	1
Totals.....	.....	66	41
<i>Raleigh County—(part).</i>			
New River Collieries Co.....	Royal.....	2	.....
New River Collieries Co.....	Lanark No. 3.....	1	.....
New River Collieries Co.....	Lanark No. 4.....	1	.....
New River Collieries Co.....	Eccles No. 1.....	4	4
New River Collieries Co.....	Eccles No. 2.....	2	1
McKell Coal & Coke Co.....	Oswald.....	1	1
McKell Coal & Coke Co.....	Sidney.....	1	.....
McKell Coal & Coke Co.....	Graham.....	2	1
McKell Coal & Coke Co.....	Tamroy.....	2	1
Wright Coal & Coke Co.....	Wright No. 1.....	.....	2
Wright Coal & Coke Co.....	No. 2.....	.....	1
Wright Coal & Coke Co.....	No. 3.....	.....	1
Stonewall Coal & Coke Co.....	Terry No. 2.....	2	.....
Stonewall Coal & Coke Co.....	Stonewall No. 3.....	1	1
Stonewall Coal & Coke Co.....	Stonewall No. 4.....	1	.....
Piney Mining Co.....	Stanaford, or Piney No. 2.....	8	2
Piney Mining Co.....	Piney No. 3.....	5	2
Piney Mining Co.....	Piney No. 4.....	5	1
Piney Mining Co.....	Piney No. 6.....	3	2
Raleigh Coal & Coke Co.....	Raleigh No. 3.....	4	.....
Raleigh Coal & Coke Co.....	Raleigh No. 1.....	1	.....
Raleigh Coal & Coke Co.....	Raleigh No. 2.....	2	.....
Raleigh Coal & Coke Co.....	Raleigh No. 4.....	3	1
Raleigh Coal & Coke Co.....	Raleigh No. 5.....	3	.....
Raleigh Coal & Coke Co.....	Raleigh No. 6.....	2	1
Blue Jay Lumber Co.....	No. 4.....	3	1
Sullivan Coal & Coke Co.....	Sullivan 1, 2, 3 & 4.....	1	1
Cranberry Fuel Co.....	Sprague.....	3	.....
Cranberry Fuel Co.....	Skelton.....	1	1
Cranberry Fuel Co.....	Cranberry.....	3	3
Cranberry Fuel Co.....	Prosperity.....	3	2
Mabscott Coal & Coke Co.....	Mabscott.....	3	.....
Beckley Coal & Coke Co.....	Beckley.....	3	4
Price Hill Fuel Co.....	Price Hill.....	1	.....
Slab Fork Coal Co.....	Slab Fork No. 1.....	2	.....
Slab Fork Coal Co.....	Slab Fork No. 2.....	2	.....
E. E. White Coal Co.....	Glen White Nos. 1 & 2.....	5	.....
Totals.....	.....	86	34

NUMBER OF INSPECTIONS—DISTRICT No. 10.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Mercer County.</i>			
Coaldale Coal & Coke Co	Coaldale	3	1
Mill Creek Coal & Coke Co	Mill Creek East	3	.....
Mill Creek Coal & Coke Co	Mill Creek West	6	.....
Mill Creek Coal & Coke Co	Tug River	4	.....
Buckeye Coal & Coke Co	Buckeye N. & S	4	1
Booth-Bowen Coal & Coke Co	Booth - Bowen	3	3
Pocahontas Consolidated Collieries Co	Caswell Hemlock	3	.....
Pocahontas Consolidated Collieries Co	Caswell Elkhorn	3	.....
Louisville Coal & Coke Co	Louisville No. 2	3	1
Louisville Coal & Coke Co	Louisville No. 3	3	.....
Cephus Coal Co	Cephus	1	1
Crystal Coal & Coke Co	Crystal Nos. 2 & 4	2	2
American Coal Co. of Alleghany Co	Crane Creek No. 1	2	.....
American Coal Co. of Alleghany Co	Crane Creek No. 2	2	.....
American Coal Co. of Alleghany Co	Pinnacle N. & S	4	.....
Thomas Coal Co	Thomas	2	.....
Pawama Coal & Coke Co	Pawama	2	.....
The Weyanoke Coal & Coke Co	Weyanoke No. 1	3	1
The Weyanoke Coal & Coke Co	Elihu No. 2	3	1
The Smokeless Coal & Coke Co	Smokeless	1	.....
Hiawatha Coal & Coke Co	Hiawatha	2	1
Spring Coal Mining Co	Spring	3	.....
Wenonah Coal & Coke Co	Wenonah Nos. 1 & 2	2	1
Totals .....	.....	64	13
<i>McDowell County—(part.)</i>			
Algoma Coal & Coke Co	Algoma or Northfork	4	1
Algoma Coal & Coke Co	Piney	1	.....
Elk Ridge Coal & Coke Co	Elk Ridge Nos. 1 & 2	6	1
Gilliam Coal & Coke Co	Gilliam	3	.....
Indian Ridge Coal & Coke Co	Indian Ridge	3	.....
Roanoke Coal & Coke Co	Roanoke	4	.....
Arlington Coal & Coke Co	Arlington	4	.....
Greenbrier Coal & Coke Co	Greenbrier	3	.....
McDowell Coal & Coke Co	McDowell	2	.....
Ashland Coal & Coke Co	Ashland	2	1
Ashland Coal & Coke Co	Monitor Nos. 1 & 2	3	.....
Pocahontas Consolidated Collieries Co	Cherokee	2	.....
Pocahontas Consolidated Collieries Co	Lick Branch	12	7
Pocahontas Consolidated Collieries Co	Delta	3	.....
Pocahontas Consolidated Collieries Co	Shamokin	6	.....
Pocahontas Consolidated Collieries Co	Norfolk Nos. 1 & 2	3	2
Pocahontas Consolidated Collieries Co	Angle	2	1
Zenith Coal & Coke Co	Nos. 1 & 2	4	4
Elkhorn Coal & Coke Co	Elkhorn	4	.....
Totals .....	.....	71	17

NUMBER OF INSPECTIONS—DISTRICT No. 11.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>McBowell County—(part).</i>			
Mohawk Coal & Coke Co.	Mohawk	1	
New River & Pocahontas Cons. Coal Co.	No. 1	3	
New River & Pocahontas Cons. Coal Co.	No. 2	3	
New River & Pocahontas Cons. Coal Co.	No. 3	3	
Hall Mining Co.	Yukon Nos. 1 & 2	2	
Virginia-Pocahontas Coal Co.	Nos. 1 & 1 ¹	3	
Virginia-Pocahontas Coal Co.	Nos. 2 East & West	3	
Virginia-Pocahontas Coal Co.	No. 3	2	
Virginia-Pocahontas Coal Co.	No. 4	2	
Virginia-Pocahontas Coal Co.	No. 5	2	
Vaughan Coal & Coke Co.	Vaughan No. 1	1	
Premier-Pocahontas Collieries Co.	Nos. 1, 2 & 3	3	
Big Sandy Coal & Coke Co.	Big Sandy	1	1
Big Sandy Coal & Coke Co.	Marytown	1	
Twin Branch Mining Co.	Twin Branch	1	
Maher Coal & Coke Co.	Maher No. 1	1	
J. B. B. Collieries Co.	J. B. B. No. 1	4	
J. B. B. Collieries Co.	J. B. B. No. 2	3	
J. B. B. Collieries Co.	J. B. B. No. 3	2	
Superior-Pocahontas Coal Co.	Superior Nos. 1 & 2	2	
Superior-Pocahontas Coal Co.	Davy Crockett	1	
Superior-Pocahontas Coal Co.	Helena Nos. 3, 4 & 5	1	
The Pando Coal Co.	Pando No. 1	1	
The Pando Coal Co.	Pando No. 2	1	
Atlas-Pocahontas Coal Co.	Antler No. 3	1	
Atlas-Pocahontas Coal Co.	Antler No. 4	1	
Oregon Coal Co.	Imo Nos. 1 & 2	2	1
Oregon Coal Co.	McClaren No. 2	1	1
Slick Rock Coal Co.	Slick Rock	2	
Jed Coal & Coke Co.	Jed	6	
United States Coal & Coke Co.	No. 1	3	
United States Coal & Coke Co.	No. 2	2	
United States Coal & Coke Co.	No. 3	1	
United States Coal & Coke Co.	No. 4	2	
United States Coal & Coke Co.	No. 5	2	
United States Coal & Coke Co.	No. 6	2	
United States Coal & Coke Co.	No. 7	2	
United States Coal & Coke Co.	No. 8 (2)	1	
United States Coal & Coke Co.	No. 9 (2)	2	
United States Coal & Coke Co.	No. 10	2	
United States Coal & Coke Co.	No. 11	3	
United States Coal & Coke Co.	No. 12	1	
Black Wolf Coal & Coke Co.	Black Wolf Nos. 1 & 2	3	
Page Coal & Coke Co.	Pageton No. 1	4	
Page Coal & Coke Co.	Pageton No. 2	3	
Page Coal & Coke Co.	Pageton No. 3	3	
Welch Coal & Coke Co.	Welch	1	
Hemphill Colliery Co.	Hemphill No. 2	2	
Middle States Coal & Coke Co.	Middle States	5	2
Dixon-Pocahontas Fuel Co.	North Side No. 1	2	2
Dixon-Pocahontas Fuel Co.	South Side No. 2	3	1
Cirrus Coal & Coke Co.	Cirrus No. 1	2	1
Virginia Fuel Co.	Virginia	2	
The King Coal Co.	King	1	1
The Tidewater Coal & Coke Co.	Tidewater	5	4
Bottom Creek Coal & Coke Co.	Bottom Creek	4	4
Peerless Coal & Coke Co.	Peerless	6	4
The Empire Coal & Coke Co.	Empire	2	
Shawnee Coal & Coke Co.	Shawnee	4	1
Eureka Coal & Coke Co.	Eureka	6	
Pulaski Iron Co.	Pulaski No. 1	3	
Pulaski Iron Co.	Pulaski No. 2	4	
Keystone Coal & Coke Co.	Keystone No. 1	4	1
Keystone Coal & Coke Co.	Keystone No. 2	4	1
Lynchburg Coal & Coke Co.	Lynchburg	5	
Powhatan Coal & Coke Co.	Powhatan	6	
Upland Coal & Coke Co.	No. 1	3	1
Houston Coal & Coke Co.	No. 1	3	2
Houston Coal & Coke Co.	No. 2	3	2
Crozer Coal & Coke Co.	No. 1	3	2
Crozer Coal & Coke Co.	No. 2	3	2
Turkey Gap Coal & Coke Co.	Turkey Gap	5	3
Dry Fork Colliery Co.	Williams	1	
Flat Top Coal Mining Co.	Thomas	1	
Henrietta Coal Co.	Henrietta	1	
Hurricane Branch Coal Co.	Huffer	1	
Totals		192	37

NUMBER OF INSPECTIONS—DISTRICT No. 12.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Lincoln County.</i>			
Branchland Coal Co	Branchland	2	.....
Southern Fuel Co	Southern Fuel .....	.....	1
Kenova Coal Mining Co	Coaling Station	1	.....
Kenova Coal Mining Co	Kenova No. 1	1	.....
Totals		4	1
<i>Logan County.</i>			
Prudential Coal & Mining Co	Prudential	1	.....
Stone Branch Coal Co	Stone Branch Nos. 1 & 2	2	.....
Big Creek Coal Co	Big Creek	2	1
E. R. Johnson Coal Co	E. R. Johnson	1	.....
Draper Coal & Coke Co	Draper	3	1
H. T. Wilson Coal Co	Wilson	2	.....
Fort Branch Coal Co	Fort Branch	2	1
Price Coal Co	Price	3	.....
Rex Coal & Coke Co	Rex	3	.....
The Logon Coal Co	Logan No. 1	2	1
Ethel Coal Co	Ethel	3	.....
The Monitor Coal & Coke Co	Monitor	2	1
The Monitor Coal & Coke Co	Beechwood	1	.....
The Yuma Coal & Coke Co	Yuma	2	.....
The Gay Coal & Coke Co	Gay	3	.....
Cora Coal & Coke Co	Cora	3	.....
United States Coal & Oil Co	Island Creek No. 1	2	.....
United States Coal & Oil Co	Island Creek No. 2	2	.....
United States Coal & Oil Co	Island Creek No. 3	2	.....
United States Coal & Oil Co	Island Creek No. 4	2	.....
United States Coal & Oil Co	Island Creek No. 5	2	1
United States Coal & Oil Co	Island Creek No. 6	3	1
Totals		48	7
<i>Mingo County.</i>			
Pearl Coal Mining Co	Haggerty	2	.....
Naugatuck Coal Co	Naugatuck	1	1
Warfield Coal Co	Warfield .....	.....	1
Lemoin Coal Co	Lemoin .....	.....	1
Chattaroy Colliery Co	Chattaroy	2	1
The Buffalo Collieries Co	Buffalo	2	.....
Lingohocken Coal Co	Lingohocken No. 1	1	1
Howard Colliery Co	Howard	3	1
Winifrede White Ash Coal Co	Sugar Tree	3	1
W. T. Poole Coal Co	Williamson No. 1	1	.....
Williamson Coal & Coke Co	Williamson No. 2	1	1
Rawl Coal & Coke Co	Rawl No. 1	1	.....
Rawl Coal & Coke Co	Rawl No. 2 .....	.....	1
White Star Coal Mining Co	White Star .....	.....	1
Marvin Coal Co	Marvin	3	.....
Red Jacket Consolidated Coal & Coke Co	Rutherford	3	1
Red Jacket Consolidated Coal & Coke Co	Logan	3	.....
Red Jacket Consolidated Coal & Coke Co	Lick Fork	3	1
Red Jacket Consolidated Coal & Coke Co	Grapevine	2	.....
Lynn Coal & Coke Co	Lynn	3	.....
Thacker Coal & Coke Co	No. 2	3	.....
Thacker Coal & Coke Co	No. 3	3	.....
Thacker Fuel Co	No. 10	3	.....
Glen Alum Coal Co	No. 1	2	.....
Glen Alum Coal Co	No. 2	2	.....
War Eagle Coal Co	Pappoose	2	.....
War Eagle Coal Co	Mephisto	3	.....
Margaret Mining Co	Margaret Nos. 1 & 2	4	.....
Totals		55	12
<i>Wayne County.</i>			
East Lynn Coal Co	East Lynn No. 1	1	1
Totals		1	1

IMPROVEMENTS.



*IMPROVEMENTS REPORTED MADE AT THE MINES DURING THE
YEAR ENDING JUNE 30th, 1909.*

COUNTY.	New Plants.	Power Plants.	Coke Ovens.	Fans.	Furnaces.	Tipples.	Additional Openings.	Totals.
Brooke				1				1
Hancock				1				1
Marion	1	1		1		2	1	6
Marshall		1				1		2
Harrison				1	1			2
Barbour							1	1
Monongalia	1						1	2
Preston		1	30			1		32
Grant					1			1
Mineral	1						2	3
Tucker				1				1
Braxton				1				1
Mason		1				1		2
Putnam		1						1
Fayette	1			8		1	1	11
Kanawha	3	1				2	3	9
Boone	2						2	4
Nicholas	2						2	4
Raleigh	3	1		1		2	3	10
Mercer		1		4				5
McDowell	10	1		4			10	25
Logan	1			4			2	7
Mingo	2	3				3	2	10
Totals	31	12	30	27	2	13	32	147

STRIKES.

*SUMMARY OF THE STRIKES AT COAL MINES IN WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.*

COUNTY.	Total Number of Mines Reporting Strikes.	Total No. of Employees Thrown out of Em- ployment by Strikes.	Number of Companies Reporting in Full.	Number of Companies Reporting Loss to Em- ployees.	Total Loss Reported to Employees.	Number of Companies Reporting Loss to Op- erators.	Total Loss Reported to Operators.
Brooke	3	470	3	2	\$23,128 63	3	\$ 9,592 50
Preston	1	300					
Fayette	22	2,603	7	11	23,000 00	8	14,800 00
Kanawha	26	2,050	3	6	15,625 00	12	400 00
Totals	52	5,423	13	19	61,753 63	13	\$ 24,792 50

STRIKES AT THE COAL MINES IN WEST VIRGINIA FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF MINE.	Total Employees Before Strike.	Total Employees for Whom Strike was Undertaken.	Total Employees Thrown Out of Employment by Strike.	Date of		Termination.	Were Works Closed in Con- sequence.	Length of Time Closed. (Working days).	Cause or Object of Strike.	How was Strike Settled.	Lost to Employees.	Lost to Operators.
				Beginning.								
<i>Brooke County.</i>												
Lewis No. 1	95	3	70	April 23, 1909	May 23, 1909	Yes	Yes	27 days	Miners wanted union recog- nized.	Employing other men.	\$.....	\$2,500.00
Locust Grove	230	15	225	July 6, 1908	July 21, 1908	Yes	Yes	13 days	Dismissing 15 Men.	Dismissed employees involv- ed and old check off.	7,027.00	5,270.00
La Belle Shaft	195	28	175	June 1, 1909	June 10, 1909	Yes	Yes	9 days	Changing method of Mining.	Accepted change.	3,128.63	1,822.50
<i>Preston County.</i>												
Tunnelton No. 2 ..	300	300	300	April 1908	April 1909	Yes	Yes	1 year	Reduction in wages.	Accepting reduction.	.....	.....
<i>Fayette County.</i>												
Sunday Cr. No. 111	238	238	238	May 25, 1909	June 11, 1909	Yes	Yes	15 days	Company demanding long ton.	Returned to short ton.	.....	.....
Sunday Cr. No. 112	280	280	280	May 25, 1909	June 14, 1909	Yes	Yes	18 days	Company demanding long ton.	Returned to short ton.	.....	.....
Sunday Cr. No. 114	170	170	170	May 25, 1909	June 12, 1909	Yes	Yes	16 days	Company demanding long ton.	Returned to short ton.	.....	.....
Sunday Cr. No. 115	234	234	234	May 25, 1909	June 11, 1909	Yes	Yes	15 days	Company demanding long ton.	Returned to short ton.	.....	.....
Columbus Iron & Steel Co. No. 1 ..	100	65	140	May 25, 1909	June 11, 1909	Yes	Yes	15 days	Demand for checkoff.	Resumed on old basis.	.....	.....
Oakland	75	45	75	May 25, 1909	June 10, 1909	Yes	Yes	14 days	Company demanding long ton.	Company returning to short ton.	3,500.00	1,000.00
Boomer No. 1	211	139	211	May 25, 1909	June 10, 1909	Yes	Yes	14 days	Company wanting uniform scale.	By obtaining partial recog- nition of uniform scale.	.....	.....
Boomer No. 2	275	182	275	May 25, 1909	June 10, 1909	Yes	Yes	14 days	Company wanting uniform scale.	By obtaining partial recog- nition of uniform scale.	4,500.00	2,800.00
Boomer No. 2 S th ..	234	148	234	May 25, 1909	June 10, 1909	Yes	Yes	14 days	Company wanting uniform scale.	By obtaining partial recog- nition of uniform scale.	5,000.00	3,000.00
Boomer No. 3	227	147	227	May 25, 1909	June 10, 1909	Yes	Yes	14 days	Company wanting uniform scale.	By obtaining partial recog- nition of uniform scale.	5,000.00	3,000.00
Eagle No. 1	40	40	40	May 25, 1909	June 11, 1909	Yes	Yes	15 days	Company demanding long ton.	Returning to short ton.	5,000.00	3,000.00

Splint No. 5	21	21	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	.....
Splint No. 6	15	15	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	.....
Mecca No. 2	60	60	May 25, 1909	June 13, 1909	Yes	17 days	Company demanding long ton.	Returning to short ton.	.....
Carver Bros. Co.									
Nos. 2 & 3	110	75	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Carver Bros. Co.									
No. 5 Splint	35	25	May 25, 1909	June 12, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	.....
Columbia No. 5	103	56	May 25, 1909	May 30, 1909	Yes	5 days	Company demanding long ton.	Returning to short ton.	.....
Vulcan						15 days	Company demanding long ton.	Returning to short ton.	.....
Lynchburg							Company demanding long ton.	Returning to short ton.	.....
Gammon									
Splint									
Peltz No. 2	35	35	June 16, 1909	Not given	Yes	78 days	Company demanding long ton.	Went to work on long ton.	\$2,000.00
			Mar 1, 1909	June 1, 1909	Yes				
<i>Kanawha County.</i>									
Cannells Creek									
Nos. 1, 3, 4 & 6	250	130	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Quincy No. 1						16 days	Company demanding long ton.	Returning to short ton.	.....
Quincy No. 2	45	40	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 101	126	78	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 104	116	68	May 25, 1909	June 7, 1909	Yes	12 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 105	108	116	May 25, 1909	June 1, 1909	Yes	5 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 106	102	58	May 25, 1909	June 1, 1909	No			Returning to short ton.	.....
Hughes-ton Nos. 2 & 3	225	166	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	6,000.00
Monarch Nos. 1 & 2	210	120	May 25, 1909	June 8, 1909	Yes	12 days	Company demanding long ton.	Returning to short ton.	3,500.00
Butler	85	85	May 25, 1909	June 13, 1909	Yes	19 days	Company demanding long ton.	Returning to short ton.	1,000.00
Butler No. 2	24	24	May 25, 1909	June 15, 1909	Yes	19 days	Company demanding long ton.	Returning to short ton.	2,500.00
Perless	30	30	May 25, 1909	June 15, 1909	Yes	13 days	Company demanding long ton.	Returning to short ton.	100.00
Roula	31	26	May 25, 1909	June 9, 1909	Yes		Company demanding long ton.	Returning to short ton.	.....
New Coalburg	88	75	June 27, 1909	Not given	Yes		Company demanding long ton.	Returning to short ton.	.....
Imperial No. 1	97	97	May 25, 1909	June 2, 1909	Yes	7 days	Company demanding long ton.	Returning to short ton.	.....
Chesapeake No. 1	83	83	May 25, 1909	June 31, 1909	Yes	6 days	Company demanding long ton.	Returning to short ton.	.....
Chesapeake Nos. 2 & 3	125	126	May 25, 1909	June 14, 1909	Yes	18 days	Company demanding long ton.	Returning to short ton.	\$2,000.00 & 300.00
Upper Creek	141	141	May 25, 1909	May 31, 1909	Yes				
	100	100	May 25, 1909	June 14, 1909	Yes				

DIRECTORY OF THE MINES.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Brooke County.</i>						
1	*First	A. Gilchrist & Son's Coal Co.	107	Gilchrist	drift	Wellsburg
2	First	La Belle Coal Co.	108	Lewis No. 1	drift	Wellsburg
3	First	Beech Bottom Coal Co.	109	Beech Bottom No. 1	drift	Wellsburg
4	First	Lewis-Findley Coal Co.	104	Loenst Grove	drift	Colliers
5	First	La Belle Iron Works	105	La Belle	shaft	Steenbenville, O.
6	First	Rex Carbon Coal Co.	106	Rex No. 1	drift	Virginville
<i>Hancock County.</i>						
7	First	The Marquet Coal Co.	101	No. 1	drift	New Cumberland
8	First	The Marquet Coal Co.	102	No. 5	drift	New Cumberland
<i>Marion County.</i>						
9	First	Fairmont Coal Co.	123	Matray	drift	Fairmont
10	First	Fairmont Coal Co.	125	Montana	drift	Fairmont
11	First	Fairmont Coal Co.	128	Shaft	shaft	Fairmont
12	First	Fairmont Coal Co.	128	New England	drift	Fairmont
13	First	Fairmont Coal Co.	127	Gastrop	drift	Fairmont
14	First	Fairmont Coal Co.	140	Monongah No. 2 or 5	slope	Fairmont
15	First	Fairmont Coal Co.	139	Monongah No. 3	drift	Fairmont
16	First	Fairmont Coal Co.	139	Monongah No. 6	slope	Fairmont
17	First	Fairmont Coal Co.	142	Monongah No. 8	drift	Fairmont
18	First	Fairmont Coal Co.	141	Shaver Nos. 1 & 2	2 drifts	Fairmont
19	First	Fairmont Coal Co.	143	Temple	drift	Fairmont
20	First	Fairmont Coal Co.	148	Anderson	drift	Fairmont
21	First	Fairmont Coal Co.	149	Highboro	drift	Fairmont
22	First	Fairmont Coal Co.	150	Middleton	drift	Fairmont
23	First	Fairmont Coal Co.	151	Union	drift	Fairmont
24	First	Fairmont Coal Co.	152	Hutchinson	slope	Fairmont
25	First	George's Creek Coal & Iron Co.	126-7	Chatham Nos. 1 & 2	2 shafts	Farmington
26	First	New Central Coal Co.	130	Stafford	shaft	Fairmont
27	First	Federal Coal & Coke Co.	131	Federal	shaft	Fairmont
28	First	The Virginia & Pittsburgh Coal & Coke Co.	133	Kingmont	drift	Fairmont
29	First	Parker Run Coal & Coke Co.	132	Parker Run	drift	Fairmont
30	First	Harry R. Coal Co.	143-5	Harry Nos. 1 & 2	2 drifts	Fairmont
31	First	Kilarn Coal & Coke Co.	146-7	Kilarn Nos. 1 & 2	2 drifts	Monongah
32	First	Pittsburg Steam Coal Co.	145	Elizabeth	drift	Fairmont
33	First	Catawba Coal Co.	124	Catawba	drift	Con'ts-ville, Pa.
34	First	Dakota Coal & Coke Co.	129	Dakota	shaft	Fairmont
34a	First	Fairmont & Lincoln Coal & Coke Co.	155	Lincoln	drift	Fairmont
<i>Marshall County.</i>						
35	First	Hitchman Coal & Coke Co.	121	Hitchman	slope	Wheeling
36	First	Boggs Run Mining & Manufacturing Co.	119	Boggs Run	drift	Wheeling
37	First	Wheeling Steel & Iron Co.	120	Bethwood Mill	drift	Wheeling
38	First	Glendale Coal Co.	122	Glendale	shaft	Glendale
39	First	Mound Coal Co.	123	Mount-ville	shaft	Moundsville
40	First	Bituminous Coal Co. of America	124	Bituminous No. 1	shaft	Moundsville
41	First	Panama Coal Mining Co.	125	Panama	shaft	Moundsville
<i>Ohio County.</i>						
42	First	Richland Coal Co.	110	Richland	drift	Wheeling
43	First	Elm Grove Coal Co.	111	Elm Grove	shaft	Elm Grove
44	First	Whitaker-Glessner Co.	115	Carter	drift	Wheeling
45	First	Reganum Brewing Co.	114	Manchester	drift	Wheeling
46	First	J. S. Creighton	117	Creighton	slope	Wheeling
47	First	Peter Storch & Sons	118	Storch	drift	Edgington Lane
48	First	La Belle Iron Works	116	La Belle	drift	Steenbenville, O.
<i>Harrison County.</i>						
49	*Second	Clarksburg Fuel Co.	220	Fall Run	drift	Fairmont
50	Second	Clarksburg Fuel Co.	222	Piunkinick	drift	Fairmont

* First District—R. S. LaRue, Inspector. * Second District—Frank E. Parsons, Inspector.
I Idle during year. J Just being opened.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superintendent.	Name of Mine Foreman.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
Alex. Gilchrist.....	Wm. T. Gilchrist.....	Pgh. No. 8	4-8	furnace.....	70	1
O. L. Marquet.....	John Hall.....	Pgh. No. 8	4-10	fan.....	90	2
Elmer Hough.....	C. E. Seidler.....	Pgh. No. 8	5-8	fan.....	122	3
E. M. Findley.....	James Platts.....	Pgh. No. 8	4-8	fan.....	234	4
R. W. McCosland.....	W. J. Lafferty.....	Lo. Free.....	3-10	fan.....	141	5
Wm. Gulley.....	Wm. Gulley.....	Pgh. No. 8	4-6	fan.....	108	6
C. F. Wagoner.....	Wm. Gilmore.....	No. 7a.....	3-6	fan.....	82	7
C. F. Wagoner.....	Wm. Gilmore.....	No. 7a.....	4-6	furnace.....	15	8
H. M. Smith.....	Wm. Hess.....	Pittsburg.....	7-8	natural.....	66	9
J. H. Bainbridge.....	W. N. Malone.....	Pittsburg.....	6-7	fan.....	151	10
C. E. Gaskill.....	Hayes Gaskill.....	Pittsburg.....	7-8	fan.....	186	11
H. C. Ash.....	B. G. Ash.....	Pittsburg.....	7-8	fan.....	195	12
Geo. Gaskill.....	P. C. Vernon.....	Pittsburg.....	7-8	fan.....	143	13
David Victor.....	Elza Level.....	Pittsburg.....	7-8	fan.....	98	14
David Victor.....	James Rodger.....	Pittsburg.....	7-8	fan.....	42	15
David Victor.....	James Gaskill.....	Pittsburg.....	7-8	fan.....	178	16
David Victor.....	P. J. McGraw.....	Pittsburg.....	7-8	fan.....	173	17
David Victor.....	Elza Level.....	Pittsburg.....	7-8	3 fans.....	104	18
Rush Miller.....	A. K. Parsons.....	Pittsburg.....	6-7	fan.....	146	19
Rush Miller.....	M. Coburn.....	Pittsburg.....	7-8	fan.....	96	20
Rush Miller.....	John Prunty.....	Pittsburg.....	7-8	fan.....	182	21
Rush Miller.....	Bland Courtney.....	Pittsburg.....	7-8	fan.....	116	22
Rush Miller.....	L. E. Henderson.....	Pittsburg.....	7-8	2 fans.....	127	23
Brooks Fleming, Jr.....	Thos. Burluck.....	Pittsburg.....	7-8	fan.....	87	24
John Hunter.....	M. E. Quenon.....	Pittsburg.....	9-0	fan.....	330	25
Duncan Sinclair.....	Thomas Gleason.....	Pittsburg.....	8-6	fan.....	147	26
W. C. Tucker.....	Wm. B. Jones.....	Pittsburg.....	8-0	fan.....	295	27
R. M. Hite.....	Wm. Jarrett & J. Brown.....	Pittsburg.....	9-0	fan.....	245	28
W. A. Martin.....	W. C. Martin.....	Sewickley.....	6-2	fan.....	46	29
George Coburn.....	Geo. Coburn.....	Pittsburg.....	7-2	furnace.....	47	30
C. E. Zeck.....	W. E. Smallwood.....	Pittsburg.....	5-6	fan.....	25	31
Jos. R. Bailey.....	Grant Swisher.....	Pittsburg.....	7-0	furnace.....	19	32
Geo. T. Rodeheaver.....	Geo. T. Rodeheaver.....	Pittsburg.....	8-0	natural.....	9	33
J. G. Hunt.....	S. R. Fetty.....	Sewickley.....	5-0	stack.....	7	34
Geo. S. Price.....		Pittsburg.....	9-0			34a
W. H. Koch.....	E. C. Pickett.....	Pgh. No. 8	5-6	fan.....	186	35
Philip Kuntz.....	Eugene Miller.....	Pgh. No. 8	5-6	fan.....	16	36
Chaskey Dawson.....	Wm. Turnbull.....	Pgh. No. 8	5-6	fan.....	61	37
E. C. Pickett.....	M. Freeman.....	Pgh. No. 8	5-8	fan.....	24	38
Adam Leonard.....	Adam Leonard.....	Pgh. No. 8	5-6	fan.....	32	39
O. K. Ward.....	J. E. Wallace.....	Pgh. No. 8	5-6	fan.....	20	40
O. K. Ward.....	James Exton.....	Pgh. No. 8	6-0	fan.....		41
J. P. Leonard.....	Wm. Nixon.....	Pgh. No. 8	5-6	fan.....	137	42
J. B. Chambers.....	Albert Elkey.....	Pgh. No. 8	5-0	fan.....	56	43
W. H. Kasley.....	Wm. Magruder.....	Pgh. No. 8	4-10	fan.....	38	44
	John Donohoe.....	Pgh. No. 8	4-6	fan.....	10	45
J. S. Creighton.....	Daniel Shaw.....	Pgh. No. 8	5-0	fan.....	4	46
Peter Storch.....		Pgh. No. 8	5-0	natural.....	5	47
G. B. Hewey.....	Wm. Blond.....	Pgh. No. 8	5-5	natural.....	14	48
Luke Murray.....	S. L. Schrader.....	Pittsburg.....	5-5	furnace.....	44	49
J. H. Nuzum.....	Thos. Pollock.....	Pittsburg.....	7-8	fan.....	185	50

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
		<i>Harrison County—Con't.</i>				
51	Second	Clarksburg Fuel Co.	249	O'Niell	drift	Fairmont
52	Second	Clarksburg Fuel Co.	257	Dixie	drift	Fairmont
53	Second	Clarksburg Fuel Co.	259	Two Lick	drift	Fairmont
54	Second	Clarksburg Fuel Co.	265	Interstate	2 drifts	Fairmont
55	Second	Clarksburg Fuel Co.	225	Despard	drift	Fairmont
56	Second	Fairmont Coal Co.	201	Enterprise	slope	Fairmont
57	Second	Fairmont Coal Co.	203	Viropa	drift	Fairmont
58	Second	Fairmont Coal Co.	204	Riverdale	drift	Fairmont
59	Second	Fairmont Coal Co.	207-8	Ehlen Nos. 2 & 1	2 drifts	Fairmont
60	Second	Fairmont Coal Co.	209	Solon	drift	Fairmont
61	Second	Fairmont Coal Co.	210-11	Gypsy Nos. 5 & 7	2 drifts	Fairmont
62	Second	Fairmont Coal Co.	213	Meadowbrook No. 1	drift	Fairmont
63	Second	Fairmont Coal Co.	213a	Meadowbrook No. 2	drift	Fairmont
64	Second	Fairmont Coal Co.	216	Globe	drift	Fairmont
65	Second	Fairmont Coal Co.	219	Dunham	drift	Fairmont
66	Second	Fairmont Coal Co.	227	Ocean	drift	Fairmont
67	Second	Fairmont Coal Co.	226	Columbia	drift	Fairmont
68	Second	Fairmont Coal Co.	238	Robinson Run	drift	Fairmont
69	Second	Fairmont Coal Co.	252	Reynoldsville	drift	Fairmont
70	Second	Fairmont Coal Co.	258	Lynch	drift	Fairmont
71	Second	Fairmont Coal Co.	262	West Fork	drift	Fairmont
72	Second	Pittsburg & Fairmont Fuel Co.	228	Perry No. 1	drift	Fairmont
73	Second	Pittsburg & Fairmont Fuel Co.	229	Perry No. 2	drift	Fairmont
74	Second	Pittsburg & Fairmont Fuel Co.	230	Coaling Station	drift	Fairmont
75	Second	Pittsburg & Fairmont Fuel Co.	236	Pooz	drift	Fairmont
76	Second	Pittsburg & Fairmont Fuel Co.	237	Lucas	drift	Fairmont
77	Second	Virginia-Maryland Coal Corporation	205	Willard No. 1	drift	Shinnston & Adamston
78	Second	Virginia-Maryland Coal Corporation	206	Willard No. 2	drift	Shinnston & Adamston
79	Second	Cook Coal & Coke Co.	214	Girard No. 1	drift	Meadowbrook
80	Second	Cook Coal & Coke Co.	215	Girard No. 1a	drift	Meadowbrook
81	Second	Corona Coal & Coke Co.	221	Harold	drift	Clarksburg
82	Second	Central Fairmont Coal Co.	223	Snake Hill	drift	Clarksburg
83	Second	Vincent Coal Co.	224	Grasselli	drift	Clarksburg
84	Second	Haywood Coal Mining Co.	269	Monroe	drift	Clarksburg
85	Second	Meadowbrook Coal & Coke Co.	231	Erie	drift	Hepzibah
86	Second	Harrison County Coal Co.	232	Overholt	drift	Fairmont
87	Second	W. B. Gunton Coal Co.	254 *	Overholt & Phoenix	drift & slope	Reynoldsville
88	Second	Lambert Run Coal Co.	235	Clauson	drift	Meadowbrook
89	Second	Hero Coal & Coke Co.	234	Hero	drift	Lumberport
90	Second	Blue Ridge Coal Co.	235	Thompson	drift	Clarksburg
91	Second	Rose Bud Coal Co.	239	Rosebud	drift	Rosebud
92	Second	Monroe Colliery Co.	240	Sylvester	drift	Rosebud
93	Second	National Coal Co.	241	National	drift	Dola
94	Second	Fayette Coal Co.	242	Fayette	drift	Dola
95	Second	Short Line Coal Co.	243	Girard No. 2	drift	Dola
96	Second	Fairmont & Baltimore Coal & Coke Co.	244	Fairmore	drift	Adamston
97	Second	Madeira-Hill-Clark Coal Co.	245	Goff	drift	Fairmont
98	Second	Madeira-Hill-Clark Coal Co.	246	Waldo	drift	Fairmont
99	Second	Madeira-Hill-Clark Coal Co.	251	New Chieftain	drift	Fairmont
100	Second	Madeira-Hill-Clark Coal Co.	250	Randolph	drift	Fairmont
101	Second	Southwestern Coal Co.	247	Miller No. 1	drift	Wilsonburg
102	Second	Southwestern Coal Co.	248	Meller No. 2	drift	Wilsonburg
103	Second	Washington Fuel Co.	247-8	Meller Nos. 1 & 2	2 drifts	Wilsonburg

* First District—R. S. LaRue, Inspector.

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS WORKED AND THICKNESS, AND TOTAL NUMBER OF INSIDE EMPLOYEES.

Name of Superintendent.	Name of Mine Foreman.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. R. Elsess	G. B. Skinner	Pittsburg	5-7	fan	95	51
G. W. Eliason	G. W. Eliason	Pittsburg	6-7	natural	7	52
Lowell Childs	S. W. Lewis	Pittsburg	5-7	fan	57	53
L. C. Keener	J. L. Thomas	Pittsburg	5-7	fan	51	54
A. W. Rapp	Geo. H. Brooks	Pittsburg	8-0	fan	16	55
H. H. Watson	Thos. Smith	Pittsburg	7-8	fan	201	56
H. H. Watson	Floyd Gandy	Pittsburg	7-8	fan	91	57
H. H. Watson	W. D. Wallace	Pittsburg	7-8	fan	57	58
Thos. Jarrett, Jr.	Claud Allison	Pittsburg	7-8	2 fans	112	59
Thos. Jarrett, Jr.	O. Bush	Pittsburg	7-8	fan	93	60
L. W. Smith	Burt Russell	Pittsburg	7-8	2 fans	104	61
A. C. Poling	Geo. Hamrick	Pittsburg	7-8	fan	74	62
A. C. Poling	Geo. Hamrick	Pittsburg	7-8	fan		63
P. J. McAndrews	P. J. McAndrews	Pittsburg	7-8	fan	24	64
Luke Murray	Walter Miller	Pittsburg	7-8	fan	52	65
K. D. Bailey	C. D. Powell	Pittsburg	7-8	fan	77	66
A. W. Rapp	M. J. Rooney	Pittsburg	6-8	fan	83	67
E. P. Goedecke	Adam Gross	Pittsburg	7-8	fan	29	68
J. R. Elsess		Pittsburg	6-0	fan	22	69
Lowell Childs	Brooks Patton	Pittsburg	5-7	fan	14	70
Lowell Childs	J. M. Matheny	Pittsburg	5-6	fan	18	71
A. V. Morgan	A. L. Hood	Pittsburg	6-7	fan	77	72
A. V. Morgan	M. C. Gandy	Pittsburg	6-7	fan		73
A. V. Morgan	M. C. Gandy	Pittsburg	6-7	fan	33	74
A. C. Ice	R. E. Kerns	Pittsburg	6-7	fan	43	75
A. C. Ice	John Walters	Pittsburg	6-7	fan	35	76
A. Lisle White	Eli Morris	Pittsburg	8-6	fan	67	77
A. Lisle White	Eli Morris	Pittsburg	7-6	furnace		78
P. B. Robinson	E. P. McOlvin	Pittsburg	7-6	fan	65	79
P. B. Robinson	E. P. McOlvin	Pittsburg	7-6	fan		80
Ed. Clingan	Ed. Clingan	Pittsburg	8-0	fan	80	81
Fred Howard	A. G. Hilbert	Pittsburg	9-0	furnace	43	82
V. E. Goecke	Grant White	Pittsburg	8-6	furnace	46	83
Seymour McIntyre	Ed. Cornell	Pittsburg	8-0	air shaft	45	84
R. E. Garrett	S. S. Litten	Pittsburg	9-0	fan	97	85
Geo. S. Price	Oscar Martin	Pittsburg	8-6	furnace	11	86
W. B. Ganton, G. M.	M. Mannix	Pittsburg	7-0	fan	24	87
Dorsey Pople		Pittsburg	7-9	fan	12	88
Robt. Shaffer	Robert Shaffer	Pittsburg	9-0	natural	21	89
Isham Keith	Frank Limer	Pittsburg	9-0	fan	46	90
Toney Starr and J. A. Straight	Toney Starr	Pittsburg	7-6	fire basket	32	91
B. H. Monroe	W. F. White	Pittsburg	8-0	furnace	31	92
E. J. Fahey	Geo. Adams	Pittsburg	6-0	furnace	20	93
B. F. Greaves	J. W. Johnson	Pittsburg	6-0	furnace	27	94
P. B. Robinson	E. G. Vincent	Pittsburg	7-6	fan	75	95
A. Lisle White	T. J. Westmoreland	Pittsburg	7-6	fan	85	96
W. R. Wilburn	C. J. Fowler	Pittsburg	7-0	fan	48	97
W. R. Wilburn	A. G. Coburn	Pittsburg	7-0	fan	120	98
W. R. Wilburn	C. J. Adams	Pittsburg	5-6	fan	122	99
W. R. Wilburn	C. J. Adams	Pittsburg	5-6	fan		100
L. B. Stevens	D. E. Brown	Pittsburg	7-6	furnace	29	101
L. B. Stevens	D. E. Brown	Pittsburg	7-6	furnace		102
D. E. Brown	D. E. Brown	Pittsburg	7-9	furnace	18	103

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Notes.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Harrison County—Con't.</i>						
104	Second	O'Gara Coal Mining Co	253	O'Gara	slope	Clarksburg
105	Second	Pitcairn Coal Co	256	Pitcairn	drift	Clarksburg
106	Second	Marshall Coal Co	260	Marshall	drift	Mt. Clare
107	Second	Cook & Hart Coal Co	261	Cook	drift	Fairmont
108	Second	Hutchinson Fuel & Supply Co	263	Hutchinson No. 1	drift	Fairmont
109	Second	Hutchinson Fuel & Supply Co	264	Hutchinson No. 2	drift	Fairmont
110	Second	Marion Gas Coal Co	276	Bingamon	drift	Enterprise
<i>Lewis County.</i>						
111	Second	Jacksonville Coal & Coke Co	270	Sarah B. No. 3	drift	Jacksonville
<i>Upshur County.</i>						
112	Second	Red Rock Fuel Co	272	Red Rock No. 1	drift	Red Rock
113	Second	Red Rock Fuel Co	273	Red Rock No. 2	drift	Red Rock
114	Second	Newcomer Coal Co	274	Newcomer	drift	Teter
115	Second	Buckhamon River Coal Co	275	Florence	drift	Adrian
<i>Barbour County.</i>						
116	*Third	Merriden Coal Mining Co	355	Merriden No. 1	drift	Merriden
117	Third	Merriden Coal Mining Co	356	Merriden No. 2	drift	Merriden
118	Third	Merriden Coal Mining Co	357	Merriden No. 3	drift	Merriden
119	Third	Merriden Coal Mining Co	358	Merriden No. 4	drift	Merriden
120	Third	Merriden Coal Mining Co	359	Merriden No. 5	drift	Merriden
121	Third	Tygart's River Coal Co	352	Arden	drift	Arden
122	Third	Fairmont Coal Co	354	Berryburg Nos. 1 & 2	2 drifts	Fairmont
123	Third	Laurel Creek Coal Co	351	Laurel Creek	drift	Grafton
124	Third	The Century Coal Co. of West Virginia	365	Century No. 1	shaft	Century
125	Third	The Century Coal Co. of West Virginia	364	Century No. 2	drift	Century
126	Third	Grafton Fuel Co	360	Lillian No. 1	drift	Grafton
127	Third	Grafton Fuel Co	361	Lillian No. 2	drift	Grafton
128	Third	Grafton Fuel Co	361a	Lillian No. 3	drift	Grafton
129	Third	The Penna Coal Mining Co	366	J. Adina	drift	Pittston, Pa.
130	Third	Davis Coal & Coke Co	371	Weaver No. 3	drift	Weaver
131	Third	Davis Coal & Coke Co	370	a Weaver No. 4	slope	Weaver
132	Third	Miller Coal & Coke Co	369	Sara	drift	Junior
133	Third	Davis Colliery Co	372	Junior No. 4	drift	Elkins Philippi R. F. D.
134	Third	Midland Coal & Coke Co	353	Midland	shaft	No. 2
135	Third	Luella Coal & Coke Co	373	Luella	drift	Philippi
136	Third	Humphreys Colliery Co	374	Humphrey	drift	Philippi
<i>Monongalia County.</i>						
137	Third	Opekiska Coal & Coke Co	304	Opekiska	drift	Opekiska
138	Third	Fairmont Coal Co	303	Beechwood	drift	Fairmont
139	Third	Elkins Coal & Coke Co	307	Richard or No. 1	drift	Morgantown
140	Third	Elkins Coal & Coke Co	305	Sabaton or No. 5	drift	Morgantown
141	Third	Connellsville Basin Coke Co	305	Nos. 1, 2 & 3	3 drifts	Richard
142	*Third	The Great Scott Coal & Coke Co	301	Great Scott No. 1	drift	Morgantown
143	Third	Grant Coal Co	302	Grant	4 drifts	Fairmont
<i>Preston County.</i>						
144	Third	The Austen Coal & Coke Co	323	Austen	drift	Austen
145	Third	The Austen Coal & Coke Co	324	Austen No. 2	drift	Austen
146	Third	Hamilton Coal & Coke Co	327	Newburg Shaft	shaft	Newburg
147	Third	Gorman Coal & Coke Co	321	West End No. 1	drift	Austen
148	Third	Gorman Coal & Coke Co	322	Gorman No. 2	drift	Austen
149	Third	Irona Coal Co	312	Irona No. 1	drift	Irona
150	Third	Irona Coal Co	313	Irona No. 2	2 drifts	Irona

* Third District—John F. Bratt, Inspector.
Idle all year.

J Just being developed. a Abandoned.

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
C. D. M. Cramer	R. H. Pollock	Pittsburg	6-6	fan	70	104
James A. Jenkins	Wm. Gantz	Pittsburg	7-0	fan	88	105
D. R. Williams	None at Present	Pittsburg	8-0	fan	125	106
James Cook	Thomas Price	Pittsburg	8-0	natural	50	107
W. G. H. Crawford	W. B. Malone	Pittsburg	7-0	fan	110	108
W. G. H. Crawford	W. B. Malone	Pittsburg	7-0	fan	109	109
Jas. B. Weightman .....	.....	Pittsburg .....	.....	.....	.....	110
Wm. Atkin	Nicholas Cole	Pittsburg	5-3	furnace	50	111
Robt. Lang, Jr.	J. A. Burke	Red Stone	4-0	fan	62	112
Robt. Lang, Jr.	J. A. Burke	Red Stone	4-0	fan .....	.....	113
R. H. Parker	Geo. L. Campbell	Pittsburg	6-6	furnace	24	114
J. W. Reckard	J. W. Reckard	Mason's n	5-8	furnace	17	115
L. J. Sandridge	G. B. Meyers	Up. Fr'pt.	6-0	} fan	} 55	116
L. J. Sandridge	G. B. Meyers	Up. Fr'pt.	6-0			117
L. J. Sandridge	G. B. Meyers	Up. Fr'pt.	6-0			118
L. J. Sandridge	G. B. Meyers	Up. Fr'pt.	6-0			119
L. J. Sandridge	G. B. Meyers	Mahoning	4-0	natural .....	.....	120
Chas. A. Cook	Geo. F. Galian	Up. Fr'pt.	6-0	fan	39	121
W. W. Ferguson	Lee Cotrell	Pittsburg	6-8	2 fans	160	122
W. S. Brydon	C. B. Trimbell	Up. Fr'pt.	5-8	air shaft	22	123
Ed. Williams	A. B. McMurdo	Red Stone	5-6	fan	268	124
Ed. Williams	H. G. Mundy	Red Stone	5-6	furnace		125
W. S. Brydon	F. V. Robinson	Mahoning	4-0	air shaft	66	126
W. S. Brydon	F. V. Robinson	Up. Fr'pt.	5-8	air shaft		127
W. S. Brydon	F. V. Robinson .....	.....	.....	.....	.....	128
A. B. Brown, Pres. ....	.....	Up. Fr'pt.	7-0	furnace .....	.....	129
W. W. Brewer	J. H. Davis	Up. Fr'pt.	6-0	fan	51	130
.....	.....	Up. Fr'pt. ....	.....	.....	.....	131
J. W. S. Miller	H. C. Haskins	Up. Fr'pt.	5-0	fan	18	132
J. F. Healey, G. M .....	.....	Up. Fr'pt.	5-0	fan	2	133
G. C. Landis .....	.....	Up. Fr'pt.	5-3	fan	41	134
Jas. A. Robinson .....	.....	Up. Fr'pt.	6-0	furnace	11	135
A. N. Humphreys .....	.....	Up. Fr'pt.	6-0	fan	12	136
C. B. Mareta	Elmer Wilfong	Pittsburg	8-0	natural	31	137
H. L. Toothman	C. H. Johnson	Pittsburg	7-8	natural	61	138
J. H. Hanford	O. T. Barnard	Up. Fr'pt.	4-0	fan	123	139
J. H. Hanford	W. E. Graham	Pittsburg	10-0	fan	23	140
Thos. H. Graham	W. D. Roberts	Up. Fr'pt.	3-0	2 fans	105	141
A. G. Tait	W. H. Deets	Pittsburg	9-6	natural	3	142
F. W. McIntire	Robt. Donlin	Pittsburg	9-0	furnace	24	143
F. W. Horchler	A. R. Murphy	Up. Fr'pt.	4-6	fan	135	144
F. W. Horchler	Geo. R. Cook	Up. Fr'pt.	4-6	fan	70	145
F. A. Husted, (rec'vr)	E. L. Griffiths	Up. Fr'pt.	4-0	fan	15	146
Thomas Murphy	B. F. Williams	Up. Fr'pt.	4-0	furnace	12	147
Thomas Murphy	Thomas Murphy	Up. Fr'pt.	4-6	fan	71	148
T. R. Spencer	J. F. Watkins	Up. Fr'pt.	4-4	fan	62	149
T. R. Spencer	J. F. Watkins	Up. Fr'pt.	4-4	furnace	21	150

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series. No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Preston County—Con't.</i>						
151	Third	Merchants Coal Co	318	Tunnelton No. 1	drift	Tunnelton
152	Third	Merchants Coal Co	319	Merchants No. 2	drift	Tunnelton
153	Third	Merchants Coal Co	320	a Merchants No. 3	drift	Tunnelton
154	Third	Oakland Coal & Coke Co	317	Corinth	drift	Corinth
155	Third	Kingwood Coal Co	315	Howesville	drift	Howesville
156	Third	Hite Coal & Coke Co	325	Dixie	drift	Hiorra
157	Third	Orr Coal & Coke Co	326	Vulcan	drift	Hiorra
158	Third	Manufacturers Coal & Coke Co	328-9	Victoria Nos. 1 & 2	slope	Kingwood
159	Third	Atlantic Coal & Coke Co	316	i Atlantic	drift	Tunnelton
160	Third	Elkins Coal & Coke Co	308	Bretz No. 2	drift	Morgantown
161	Third	Elkins Coal & Coke Co	311	No. 1 at Kingwood		
				or No. 4	drift	Morgantown
162	Third	Elkins Coal & Coke Co	311a	No. 2 at Kingwood		
				or No. 4	drift	Morgantown
163	Third	Elkins Coal & Coke Co	309	Masontown No. 6	2 drifts	Morgantown
164	Third	Preston County Coke Co	310	Cascade No. 1	drift	Cascade
<i>Taylor County.</i>						
165	Third	Grafton Coal & Coke Co	339	Sand Lick	drift	Grafton
166	Third	Pittsvein Coal Co	344	Flemington Nos. 2&4	2 drifts	Flemington
167	Third	L. B. Brydon	337	i Brydon	drift	Grafton
168	Third	T. B. Davis	343	I. B. Davis	drift	Piedmont
169	Third	McGraw Coal Co	338	New York No. 1	drift	Simpson
170	Third	Rosemont Coal Co	345	Rosemont	drift	Tyre'nn'll Mines
171	Third	Maryland Coal Co	340	Wendel No. 1	drift	Grafton
172	Third	Maryland Coal Co	341	Wendel No. 2	drift	Grafton
173	Third	Maryland Coal Co	341	Wendel No. 3	drift	Grafton
174	Third	Maryland Coal Co	342	Wendel No. 4	drift	Grafton
175	Third	Maryland Coal Co	346	Wendel No. 5	drift	Grafton
176	Third	Winona Coal & Coke Co	333	Winona No. 1	drift	Grafton
177	Third	Winona Coal & Coke Co	334	Winona No. 2	drift	Grafton
178	Third	Harrison Coal Co	347	Harrison	drift	Tyrcon'll Mines
179	Third	East Grafton Coal & Coke Co	332	e East Grafton	drift	Thornton
180	Third	s Johnson Brothers Coal Co	349	Cecil	drift	Bellaire, O.
<i>Grant County.</i>						
181	oFourth	Davis Coal & Coke Co	421	Henry No. 22	shaft	Henry
182	Fourth	Buffalo Creek Cumberland Coal Co	423	Buffalo Creek	drift	Bayard
183	Fourth	Cottage Street Coal Co	424	Cottage Street	drift	Bayard
<i>Mineral County.</i>						
184	Fourth	Davis Coal & Coke Co	426	No. 6	drift	Elk Garden
185	Fourth	Davis Coal & Coke Co	428	Hartmansville No. 9	drift	Elk Garden
186	Fourth	Davis Coal & Coke Co	425	Tyson No. 10	drift	Elk Garden
187	Fourth	Davis Coal & Coke Co	434	Kittanning No. 14	drift	Elk Garden
188	Fourth	Davis Coal & Coke Co	429	Kittanning No. 15	drift	Elk Garden
189	Fourth	Davis Coal & Coke Co	427	Ott No. 20	drift	Elk Garden
190	Fourth	Davis Coal & Coke Co	438	Montgomery Run		
191	Fourth	Davis Coal & Coke Co	439	No. 19	drift	Beryl
192	Fourth	Davis Coal & Coke Co	440	No. 50	drift	Beryl
193	Fourth	Abrams Creek Coal & Coke Co	430	No. 51	drift	Beryl
194	Fourth	Piedmont Brick & Coal Co	431	Oakmont	drift	Oakmont
195	Fourth	Piedmont & Potomac Coal Co	431	i Karr	drift	Piedmont
196	Fourth	Masteller Coal Co	432	Virginia	drift	Cumberl'd, Md.
197	Fourth	Masteller Coal Co	433	Hampshire	drift	Keyser
198	Fourth	Smith Coal Co	445	New Creek	drift	Keyser
199	Fourth	Western Maryland Coal Co	435	Smith	drift	Blaine
200	Fourth	Western Maryland Coal Co	446	Blaine No. 2	drift	Grafton
			447	Blaine No. 3	drift	Grafton

oFourth District—John A. Springer, Inspector. a Abandoned.
s Successors to Cecil Coal & Coke Co. i Idle since March, 1908.
e Expect to ship coal about November 1, 1909.
v Idle since March, 1908.

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
T. R. Barber	J. W. Watkins	Up. Fr'pt.	5-0.	nat. & furn.	202	151
T. R. Barber	J. W. Watkins	Up. Fr'pt.	5-0.	fan		152
T. R. Barber	J. W. Watkins					153
B. H. Reed, (ree'yr)		Up. Fr'pt.	4-0.	fan & nat.		25 154
W. B. Edwards		Up. Fr'pt.	4-6.	furnace		100 155
R. M. Hite	Alf Portney	Up. Fr'pt.	4-4.	furnace	10	156
J. M. Orr	F. E. Dawson	Up. Fr'pt.	4-4.	fan	80	157
John Humphries	John Humphries	Lo. Kit'g.	5-6.	fan	55	158
		Up. Fr'pt.	4-6.	fan		159
J. B. Hanford	Jos. Hanford	Up. Fr'pt.	4-0.	fan	112	160
J. B. Hanford	R. R. Beveridge	Up. Fr'pt.	4-0.	2 fans	103	161
J. B. Hanford	R. R. Beveridge	Up. Fr'pt.	4-0.	fan		162
J. B. Hanford	Jos. Hanfor, Jas. Martin	Up. Fr'pt.	4-0.	fan		51 163
Eberhart Bierer	D. B. Davis	Up. Fr'pt.	4-2.	fan	70	164
E. J. Fahey	John P. McGraw	Pittsburg	7-0.	furnace	72	165
J. W. Davidson	G. R. W. Johnson	Pittsburg	9-0.	fan	60	166
L. B. Brydon		Pittsburg	8-0.	natural		167
W. B. Wolf	Wm. Draher	Pittsburg	6-8.	furnace	50	168
J. J. Malloy	Oliver Jenkins	Pittsburg	7-0.	fan	61	169
James Starford	Oliver McIntire	Pittsburg	7-0.	furnace	149	170
Geo. S. Brackett	August Ricker	Pittsburg	6-6.	} 3 fan		171
Geo. S. Brackett	August Ricker	Pittsburg	6-6.			172
Geo. S. Brackett	August Ricker	Pittsburg	6-6.		65	173
Geo. S. Brackett	August Ricker	Pittsburg	6-6.			174
Geo. S. Brackett	August Ricker	Pittsburg	6-6.			175
M. H. Liston	W. H. Hughes	Mahoning	3-6.	furnace	10	176
M. H. Liston	W. H. Hughes	Lo. Fr'pt.	4-6.	fan	6	177
H. G. Smith	H. G. Smith	Pittsburg	7-6.	natural	38	178
Thos. Williams	Geo. Moffatt	Up. Fr'pt.	5-0.	fan	3	179
J. F. Johnson	J. A. Williams	Up. Fr'pt.	4-0.	air shaft	5	180
W. J. Christopher	M. V. Manley	Up. Kit'g.	5-6.	fan	172	181
R. D. Waddell	R. D. Waddell	Lo. Kit'g.	7-0.	fan	29	182
John Jose	C. C. Chenoweth	Up. Fr'pt.	4-6.	furnace	12	183
Robt. Grant	Foster Wilson	Pittsburg	12-0.	fan	39	184
Robt. Grant	J. E. Ott	Pittsburg	12-0.	natural	134	185
Robt. Grant	B. S. Coleman	Tyson	5-0.	furnace	43	186
Robt. Grant	F. C. Patton	Up. Fr'pt.	4-2.	fan	58	187
Robt. Grant	J. W. Kilroy	Up. Fr'pt.	4-2.	furnace	14	188
Robt. Grant	L. D. Vaughan	Up. Fr'pt.	4-2.	fan	42	189
O. Tibbetts	J. A. Tibbetts	Lo. Kit'g.	5-8.	fan	75	190
O. Tibbetts	J. A. Tibbetts	Bakerst'n	4-0.	fan	39	191
O. Tibbetts	J. A. Tibbetts	Bakerst'n	4-0.	fan	44	192
F. H. Tibbetts	F. H. Tibbetts	Up. Fr'pt.	4-6.	fan	52	193
		Lo. Kit'g.	5-8.	natural		194
J. W. P. Sommerville	J. L. Brown	Lo. Kit'g.	5-0.	fan	8	195
M. Masteller	Frank Harshbarger	Elk Lick	4-0.	fan	51	196
M. Masteller	Frank Harshbarger	Lo. Kit'g.	5-0.	fan		197
R. A. Smith	Jno. Rowland	Lo. Kit'g.	4-0.	fan		45 198
S. B. Brydon	F. J. Bell	Lo. Kit'g.	4-0.	air shaft	10	199
S. B. Brydon	F. J. Bell	Lo. Kit'g.	4-0.	air shaft	7	200

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Mineral County—Con't.</i>						
201	Fourth	Western Maryland Coal Co.	548	Blaine No. 4	drift	Grafton
202	Fourth	Gleason Coal & Coke Co.	436-7	Gleason Nos. 1 & 2	2 drifts	Dodson, Md.
203	Fourth	Big Vein Coal Co. of W. Va.	441	Four-foot	drift	Shaw
204	Fourth	Denman Coal Co.	443	Denman No. 3	drift	Emoryville
205	Fourth	Glade Run Coal & Coke Co.	444	Sarah	drift	Schell
206	Fourth	Emory Run Coal Co.	449	Emory Run No. 1	drift	Emoryville
<i>Randolph County.</i>						
207	Fourth	Davis Coal & Coke Co.	401	Weaver No. 1	drift	Weaver
208	Fourth	Davis Coal & Coke Co.	402	Weaver No. 2	drift	Weaver
209	Fourth	Davis Coal & Coke Co.	403	a Letter No. 5	drift	Weaver
210	Fourth	Davis Colliery Co.	404	Coalton No. 1	drift	Elkins
211	Fourth	Davis Colliery Co.	406	Sivad No. 2	drift	Elkins
212	Fourth	Davis Colliery Co.	407	Harding No. 3	drift	Elkins
213	Fourth	Davis Colliery Co.	408	Harding No. 5	drift	Elkins
214	Fourth	W. H. Greene (Lessee)	405	Klondyke	drift	Mable
<i>Tucker County.</i>						
215	Fourth	Cumberland Coal Co.	410	Douglas No. 1	drift	Albert
216	Fourth	Cumberland Coal Co.	409	Douglas No. 4	drift	Albert
217	Fourth	Cumberland Coal Co.	409	Douglas No. 5	drift	Albert
218	Fourth	Davis Coal & Coke Co.	413	Thomas No. 23	drift	Thomas
219	Fourth	Davis Coal & Coke Co.	412	Pendleton Run	drift	Thomas
220	Fourth	Davis Coal & Coke Co.	411	Thomas No. 25	drift	Thomas
221	Fourth	Davis Coal & Coke Co.	416	Coketon No. 26	drift	Thomas
222	Fourth	Davis Coal & Coke Co.	414	Thomas No. 34	shaft	Thomas
223	Fourth	Davis Coal & Coke Co.	418	Coketon No. 35	drift	Thomas
224	Fourth	Davis Coal & Coke Co.	415	Coketon No. 36	drift	Thomas
225	Fourth	Davis Coal & Coke Co.	417	Coketon No. 37	drift	Thomas
226	Fourth	Beacon Coal & Coke Co.	419	Beacon	drift	Davis
227	Fourth	Gatzmer Coal & Coke Co.	420	Gatzmer No. 1	drift	Dobbin
<i>Braxton County.</i>						
228	*Fifth	Davis Colliery Co.	580	Bower No. 10	4 drifts	Elkins
229	Fifth	Davis Colliery Co.	581	Copen No. 11	drift	Elkins
230						
231	<i>Gilmer County.</i>					
232	Fifth	Cosmopolitan Coal & C. Co.	582	Gilmer No. 1	drift	Emert
233						
234	<i>Mason County.</i>					
235	Fifth	Mason City Coal Mining Co.	504	Klondike	drift	Mason
236	Fifth	Mason City Coal Mining Co.	503	Linden	drift	Mason
237	Fifth	Consumers C. & Min. Co.	507	Camden	drift	Spilman
238	Fifth	Beech Grove Coal Co.	506	Beech Grove	drift	Mason
239	Fifth	The Liverpool Salt & C. Co.	502	Jackson	drift	Hartford
240	Fifth	Hartford Coal & Min. Co.	501	Hartford	slope	Hartford
241	Fifth	Dixie Coal Works	505	Dixie	drift	Mason
<i>Putnam County.</i>						
242	Fifth	Plymouth Coal & Min. Co.	509	Plymouth	drift	Plymouth
243	Fifth	Plymouth Coal & Min. Co.	510	Manilla	drift	Plymouth
244	Fifth	Plymouth Coal & Min. Co.	511	California	drift	Plymouth
245	Fifth	Alpha Coal Mining Co.	517	Alpha	drift	Plymouth
246	Fifth	The Otto Marmet C. & M. Co.	514	Big Otto No. 1	drift	Raymond City
247	Fifth	The Otto Marmet C. & M. Co.	515	Big Otto No. 2	drift	Raymond City
248	Fifth	The Otto Marmet C. & M. Co.	516	Big Otto No. 3	drift	Raymond City
249	Fifth	Black Betsey Coal & M. Co.	512	No. 1	drift	Black Betsey
250	Fifth	Black Betsey Coal & M. Co.	513	No. 2	drift	Black Betsey
251	Fifth	Oak Forest Coal & M. Co.	508	Oak Forest	drift	Winfield
252	Fifth	Big Hurricane Coal Co.	583	Hurricane	drift	Winfield

* Fourth District—John A. Springer, Inspector.

† Fifth District—Earl A. Henry, Inspector.

a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thickness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
S. B. Brydon	F. J. Bell	Lo. Kit'g	4-0	air shaft	9	201
Jno. M. Davis	R. Stottmeyer	Lo. Kit'g	6-8	fan	48	202
O. L. Ball	Wm. Brodwaters	Four foot	2-4	fan	21	203
Thomas Taylor	D. S. Seaman	Up. Fr'pt	4-6	furnace	20	204
T. A. Fleming .....	.....	Up. Kit'g	3-2	furnace	7	205
O. D. Davis .....	.....	Bakerst'n	3-0	furnace	6	206
W. W. Brewer	Harley Davis	Lo. Kit'g	9-0	fan	141	207
W. W. Brewer	G. W. Burk	Lo. Kit'g	9-0	fan	82	208
F. C. Cornay	W. F. Riley	Up. Fr'pt	7-0	fan	130	209
J. F. Healy, G. M.	W. Martin	Up. Fr'pt	7-0	furnace	15	211
W. S. Wilson	W. Martin	Up. Fr'pt	6-6	fan	90	212
Jos. Haylman	Jos. Haylman	Up. Fr'pt	6-6	furnace	8	213
W. H. Green	W. H. Green	Up. Fr'pt	8-0	furnace	5	214
J. B. Jenkins	Richard Jenkins	M & L Kit'g	11-0	fur.&stack	77	215
J. B. Jenkins	A. J. Jenkins	M & L Kit'g	11-0	fan	154	216
J. B. Jenkins	A. J. Jenkins	M & L Kit'g	11-0	fan	217	217
L. S. McDowell	W. F. Reeves	Up. Fr'pt	7-0	fan	194	218
L. S. McDowell	W. B. Riggelman	Up. Fr'pt	7-0	fan	194	219
L. S. McDowell	W. H. Riggelman	Up. Fr'pt	6-0	fan	170	220
M. L. Garvey	James Lake	Up. Fr'pt	5-0	fan	65	221
L. S. McDowell	Sam Hawshaw	Lo. Kit'g	6-0	fan	94	222
M. L. Garvey	James Christopher	Lo. Kit'g	5-6	fan	59	223
M. L. Garvey	James Christopher	Lo. Kit'g	5-6	fan	160	224
M. L. Garvey	P. J. Brennan	Lo. Kit'g	5-6	fan	95	225
W. C. Patterson	Alex Close	Lo. Kit'g	8-0	fan	37	226
A. G. Waddell	A. G. Waddell	Lo. Kit'g	7-6	furnace	3	227
R. D. Edwards	W. Riggs	Pittsburg	6-0	fan	80	228
R. D. Edwards	Geo. Montoney	Pittsburg	5-6	furnace	11	229
C. L. Gandy	Chas. Conrad	Pittsburg	6-6	furnace	28	230
C. J. Ryan	Wm. Shawhan	Pgh. No. 8	4-8	fan	73	231
C. J. Ryan	Wm. Shawhan	Pgh. No. 8	4-8	fan	27	232
M. G. Tyler	James Smith	Pgh. No. 8	4-0	fan	41	233
J. Tenhower	J. F. Tenhower	Pgh. No. 8	5-0	natural	32	234
H. F. Smith	Samuel Edmunds	Pgh. No. 8	4-8	fan	31	235
A. C. Blewers	D. K. Harrison	Pgh. No. 8	4-8	fan	50	236
G. H. Gress	B. Phillips	Pgh. No. 8	4-6	furnace	10	237
W. C. Mitchell	Joseph Virgin	Pittsburg	5-0	fan	20	238
W. C. Mitchell	Joseph Virgin	Pittsburg	5-0	fan	83	239
W. C. Mitchell	Joseph Virgin	Pittsburg	5-0	fan	96	240
J. C. Fish	James Hargraves	Pittsburg	4-0	fan	10	241
Edward Schonbaum	Andrew Utt, Robert	Pittsburg	6-0	fan	246	242
Edward Schonbaum	Fields	Pittsburg	6-0	fan	290	243
Edward Schonbaum	Robert Fields	Pittsburg	6-0	fan	248	244
C. L. Trippett	J. W. Hargraves and	Pittsburg	5-8	fan	249	245
C. L. Trippett	L. W. Travellan	Pittsburg	5-8	fan	268	246
C. L. Trippett	J. W. Hargraves and	Pittsburg	5-8	fan	250	247
D. L. Thomas	L. W. Travellan	Pittsburg	4-0	fan	27	248
J. P. Knight, G. M.	W. L. Thomas	Pittsburg	4-0	fan	25	249
	Wm. Thomas	?	3-0	air shaft	5	250

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	NAME OF COMPANY.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Clay County.</i>						
253	Fifth	Dorfee Coal Mining Co.	578	iElk Manor	drift	Dorfee
254	Fifth	Elk River C. & Lumber Co.	579	Dundon	drift	Clay
255	*Seventh	Carter Coal Co.	777	Carter	drift	Scotford
256	Seventh	Kentucky C. & Lumber Co.	778	iScot	drift	Cambria
<i>Fayette County.</i>						
257	*Fifth	Sunday Creek Co.	564	No. 111	drift	Longacre
258	Fifth	Sunday Creek Co.	565	No. 112	drift	Longacre
259	Fifth	Sunday Creek Co.	566	No. 114	2 drifts	Longacre
260	Fifth	Sunday Creek Co.	568	No. 115	drift	Longacre
261	Fifth	The Columbus Iron & S. Co.	569	No. 1	drift	Marling
262	Fifth	Kanawha Gas Coal Co.	570	Kanawha Gas	drift	Smithers
263	Fifth	Kanawha Gas Coal Co.	572	Eagle	drift	Smithers
264	Fifth	W. R. Johnson & Co.	571	Oakland	drift	Smithers
265	Fifth	Boomer Coal & Coke Co.	573	No. 1	drift	Boomer
266	Fifth	Boomer Coal & Coke Co.	574	No. 2 North	drift	Boomer
267	Fifth	Boomer Coal & Coke Co.	575	No. 2 South	drift	Boomer
268	Fifth	Boomer Coal & Coke Co.	576	No. 3	drift	Boomer
269	*Seventh	Paint Creek Collieries Co.	735	Illickory Camp	drift	Mucklow
270	Seventh	Eureka Colliery Co.	738	Eureka No. 13	drift	Donwood
271	Seventh	Eureka Colliery Co.	739	Eureka No. 14	drift	Donwood
272	Seventh	W. R. Johnson	740	Eagle No. 1	drift	Crescent
273	Seventh	W. R. Johnson	741	Splint No. 5	drift	Crescent
274	Seventh	W. R. Johnson	741	Splint No. 6	drift	Crescent
275	Seventh	Mecca Coal & Coke Co.	736	Mecca No. 2	drift	Montgomery
276	Seventh	Mecca Coal & Coke Co.	737	Mecca No. 5	drift	Montgomery
277	Seventh	The Carver Bros. Co.	742	No. 2	drift	Eagle
278	Seventh	The Carver Bros. Co.	743	No. 3	drift	Eagle
279	Seventh	The Carver Bros. Co.	744	iNo. 1	drift	Eagle
280	Seventh	The Carver Bros. Co.	745	iEagle	drift	Eagle
281	Seventh	The Carver Bros. Co.	745	iCalifornia	drift	Eagle
282	Seventh	The Carver Bros. Co.	746	No. 5 Splint	drift	Eagle
283	Seventh	The Carver Bros. Co.	747	Diamond	5 drifts	Eagle
284	Seventh	St. Clair Colliery Co.	748	St. Clair No. 1	drift	Eagle
285	Seventh	St. Clair Colliery Co.	749	iSt. Clair No. 2	drift	Eagle
286	Seventh	M. B. Coal Co.	750	c Kimberly No. 3	2 drifts	Kimberly
287	Seventh	M. B. Coal Co.	751	c Columbia	drift	Kimberly
288	Seventh	M. B. Coal Co.	752	Columbia No. 5	drift	Kimberly
289	Seventh	M. B. Coal Co.	753	Elk Ridge No. 1	drift	Elk Ridge
290	Seventh	M. B. Coal Co.	754	Elk Ridge No. 2	drift	Elk Ridge
291	Seventh	The Mt. Carbon Co., Ltd.	755	Vulcan	drift	Powellton
292	Seventh	Great Kanawha Colliery Co.	757	Brewster	drift	Mt. Carbon
293	Seventh	Great Kanawha Colliery Co.	758	Digby	drift	Mt. Carbon
294	Seventh	Great Kanawha Colliery Co.	756	Edwards	drift	Mt. Carbon
295	Seventh	Loup Creek Colliery Co.	759	Ansted	drift	Page
296	Seventh	Loup Creek Colliery Co.	760	Eagle	drift	Page
297	Seventh	Herbert Collieries	761	Herberton	drift	Herberton
298	Seventh	Fort Defiance, C. & C. Co.	762	Fort Defiance	drift	Gauley Ridge
299	Seventh	Lynchburg Colliery Co.	763	Lynchburg	drift	Vaneta
300	Seventh	Gamoca Coal Co.	764	No. 2 Gas	drift	Gamoca
301	Seventh	Gamoca Coal Co.	765	No. 5 Splint	drift	Gamoca
302	Seventh	Dietz Colliery Co.	766	Dietz No. 2 Gas	drift	Wyndal
303	Seventh	Dietz Colliery Co.	767	Dietz No. 5 Splint	drift	Wyndal
304	eEighth	Mill Creek Colliery Co.	801	Mill Creek	drift	Ansted
305	Eighth	The Gauley Mtn. Coal Co.	802	Nova Scotia	drift	Ansted
306	Eighth	The Gauley Mtn. Coal Co.	803	Turkey Creek	drift	Ansted
307	Eighth	Croft & Evans	804	iPine Top	drift	Ansted
308	Eighth	Croft & Evans	805	iSignal Knob	drift	Ansted
309	Eighth	Gaymont Colliery Co.	806	Gaymont	drift	Elmo
310	Eighth	Sunbury Coal & Coke Co.	807	Sunny Side	drift	Elmo
311	Eighth	Benry-New River Coal Co.	808	Elmo	drift	Elmo
312	Eighth	Michigan Coal Co.	809	Michigan	drift	Fayette
313	Eighth	Man'rs & Con'srs Coal Co.	810	Newlyn	drift	Fayette

*Fifth District—Earl A. Henry, Inspector. *Seventh District—Wm. Warren, Inspector.
e Eighth District—J. A. Straughan, Inspector until March 31, 1909.

i Idle all year. c Closed down March 31, 1908.

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYES.*

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
Henry Brooke		Winifrede	5-0	fan		253
L. C. Bierne	B. F. Dorsey	Stockton	3-0	fan	51	254
Wm. Tomplin	Len Arthur	Coalburg	4-4	furnace	30	255
		Coalburg	5-6	furnace		256
W. F. Mandt	C. E. Thrush	No. 2 Gas.	5-6	fan	177	257
W. F. Mandt	Lee Jenkins	No. 2 Gas.	5-0	fan	191	258
W. F. Mandt	John Dufour	No. 2 Gas.	5-4	2 fans	134	259
W. F. Mandt	Robert Fleeman	No. 2 Gas.	6-0	fan	170	260
J. H. Fergusson	G. E. Sanford	No. 2 Gas.	5-4	fan	89	261
T. A. Bartlam	Samuel Mitchell	No. 2 Gas.	5-8	fan	70	262
T. A. Bartlam	Samuel Mitchell	Eagle	4-0	fan	19	263
T. A. Bartlam	B. Hill	No. 2 Gas.	5-4	fan	69	264
W. M. Gillie	Henry Deems	No. 2 Gas.	5-6	fan	201	265
W. M. Gillie	Bud Hayslett	No. 1 Gas.	5-9	fan	262	266
W. M. Gillie	Charles Duncan	No. 1 Gas.	5-9	fan	219	267
W. M. Gillie	John Elswick	No. 2 Gas.	5-6	fan	219	268
Frank Kearnes	R. F. Townsend	Eagle	6-6	fan	53	269
John Nugent	John Dume	No. 2 Gas.	4-0	fan	14	270
John Nugent	John Dume	No. 5 Spl't	5-6	fan	73	271
		No. 5 Spl't	6-0	fan		272
T. A. Bartlam	Joe Bartlam	Eagle	3-6		42	273
T. A. Bartlam	H. Webster	No. 5 Spl't	6-0	natural	50	274
T. A. Bartlam	H. Webster	No. 6 Spl't	4-6	fan	20	275
John Carver	J. W. Armentrout	No. 2 Gas.	4-6	fan	63	276
John Carver	E. Forbes	No. 5 Spl't	7-0	fan	49	277
J. H. Jackson	John E. Carver	No. 2 Gas.	4-10	fan		278
J. H. Jackson	John E. Carver	No. 2 Gas.	4-10	fan	78	279
		Eagle	4-0	fan		280
		Eagle	4-0	fan		281
J. H. Jackson	A. B. Phillips	No. 5 Spl't	6-0	natural	29	282
James E. Carver	Ed. Forbes	No. 2 Gas.	5-0	2 fans	99	283
L. W. Atkinson	H. O. Young	Eagle	4-10	fan	45	284
L. W. Atkinson	H. O. Young	No. 2 Gas.	5-0	fan		285
		No. 2 Gas.	7-0	fan		286
		No. 2 Gas.	4-6	fan		287
C. C. Sharp	Walter Gill	No. 5 Spl't	5-10	furnace	23	288
C. C. Sharp	L. Hornsby	Powell't n	6-0	fan	75	289
C. C. Sharp	Lem Payne	Powell't n	6-2	fan	44	290
D. T. Evans	J. S. Wiseman	Powell't n	6-0	fan	88	291
John Nugent	John Eads	No. 2 Gas.	4-4	natural	29	292
John Nugent	John Eads	No. 2 Gas.	4-8	fan	29	293
John Nugent	John Eads	Eagle	2-10	fan	30	294
J. C. R. Taylor, G. Mgr	D. S. Dooley	No. 2 Gas.	9-7	fan		295
J. C. R. Taylor, G. Mgr	D. S. Dooley	Eagle	5-8	furnace	300	296
John Connell	J. F. Maym	Eagle	3-0	furnace	105	297
T. R. Ragland	Jesse Blake	No. 2 Gas.	4-6	furnace	46	298
T. A. Deitz	J. C. Grissinger	No. 2 Gas.	3-10	furnace	105	299
J. M. Campbell	J. M. Campbell	No. 5 Spl't	5-6	fan		300
J. M. Campbell	J. M. Campbell	No. 2 Gas.	4-0	fan	90	301
T. A. Deitz	L. D. Moran	No. 2 Gas.	3-8	furnace	29	302
T. A. Deitz	L. D. Moran	No. 5 Spl't	5-6	furnace	47	303
W. H. Evans	R. H. Massey	*Sewell	3-0	fan	39	304
R. C. Taylor	J. A. Martin	No. 2 Gas.	5-0			305
R. C. Taylor	J. A. Martin	No. 2 Gas.	5-0	3 fans	270	306
		No. 2 Gas.	5-0	natural		307
		No. 2 Gas.	5-0	natural		308
James Raisbeck		Sewell	2-9	fan	6	309
James Raisbeck	C. McAttee	Sewell	2-10	fan	46	310
James Raisbeck	John Robertson	Sewell	3-0	fan	18	311
J. D. Boone	C. E. Sims	*Nuttall	3-0	furnace	67	312
P. H. Henry	J. W. Sims	Sewell	3-0	fan	90	313

*Sewell and Nuttall means the same coal bed.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Register No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Fayette County—Cont</i>						
314	Eighth	The Fayette Coal & C. Co	811	Fayette	drift	Fayette
315	Eighth	Brown Coal Co	852	Brown	drift	Nuttallburg
316	Eighth	Nuttallburg Collieries Co	812	Nuttallburg	drift	Nuttallburg
317	Eighth	Nuttallburg Collieries Co	812a	Keeney's Creek	drift	Nuttallburg
318	Eighth	Holiday Coal Co	813	Keeney	drift	Edmond
319	Eighth	Keeney's Creek Colliery Co	817	Smokeless	drift	Winona
320	Eighth	Keeney's Creek Colliery Co	814	Boone	drift	Boone
321	Eighth	Ballinger Coal Co	816	Ballinger No. 1	drift	Nuttallburg
322	Eighth	Ballinger Coal Co	815	Ballinger No. 2	drift	Nuttallburg
323	Eighth	Rothwell Coal Co	818	Dubree	drift	Dubree
324	Eighth	Blume Coal & Coke Co	820	Blume	drift	Lookout
325	Eighth	Lookout Coal & Coke Co	821	Lookout	drift	Lookout
326	Eighth	Moseley & Walker	822	No. 1	drift	Cliff Top
327	Eighth	Moseley & Walker	823	No. 2	drift	Cliff Top
328	Eighth	Moseley & Walker	824	No. 3	drift	Cliff Top
329	Eighth	Fire Creek Coal & C. Co	827	Fire Creek	drift	Fire Creek
330	Eighth	Fire Creek Coal & C. Co	828	Buffalo Nos. 1 & 2	2 drifts	Fire Creek
331	Eighth	Beury Bros. Coal & C. Co	830	Echo	drift	Beury
332	Eighth	Big Bend Coal Co	831	Big Bend	drift	Dimmock
333	Eighth	Stone Cliff Coal & C. Co	832	Stone Cliff	drift	Stone Cliff
334	Eighth	Beechwood Coal & C. Co	833	No. 1	drift	Claremont
335	Eighth	Beechwood Coal & C. Co	834	No. 2	drift	Claremont
336	Eighth	Alaska Coal & Coke Co	835	Alaska	drift	Claremont
337	Eighth	Ephraim Creek C & C. Co	836	Buffalo	drift	Thayer
338	Eighth	Ridgeview Coal Co	837	Ridgeview	drift	Thayer
339	Eighth	Export Coal Co	838	Export	drift	Charleston
340	Eighth	Laurel Creek Coal Co	839	Laurel	drift	Laurel Creek
341	Eighth	Glendale Colliery Co.	840	Glendale	drift	Lawton
342	Eighth	Quinnimont Coal Co	841	Big Q	2 drifts	Quinnimont
343	Eighth	Greenwood Coal Co	843	Greenwood	2 drifts	Lawton
344	Eighth	Hemlock Hollow C & C. Co	844	Hemlock	drift	Lawton
345	Eighth	New R. & Poen, Cons. C. Co	845a	Layland	3 drifts	Gentry
346	Eighth	New R. & Poen, Cons. C. Co	846	Minden No. 1	drift	Minden
347	Eighth	New R. & Poen, Cons. C. Co	847	Minden No. 2	drift	Minden
348	Eighth	New R. & Poen, Cons. C. Co	848	Minden No. 3	drift	Minden
349	Eighth	New R. & Poen, Cons. C. Co	849	Minden No. 4	drift	Minden
350	Eighth	New R. & Poen, Cons. C. Co	850	Minden No. 5	drift	Minden
351	Eighth	New River Valley Coal Co	848	Bachman	drift	Fayette
352	Eighth	Morris Branch Coal Co	849	Whitman	drift	Fayette
353	Eighth	Low Moor Iron Co. of Va	851	Kaymoor No. 1	drift	Kaymoor
354	Eighth	Low Moor Iron Co. of Va	850	Kaymoor No. 2	drift	Kaymoor
355	Eighth	Elverton Coal & C. Co	853	Elverton	drift	Elverton
356	Eighth	South Side Coal Co	854	South Side	drift	Caperton
357	Eighth	The Thurmond Coal Co	850	No. 1 Concho	drift	Concho
358	Eighth	The Thurmond Coal Co	860	No. 2 Eskine	drift	Eskine
359	Eighth	The New River Colls. Co	855	Channad	drift	Sewell
360	Eighth	The New River Colls. Co	856	Brooklyn	drift	Finlow
361	Eighth	The New River Colls. Co	857	Red Ash	drift	Fire Creek
362	Eighth	The New River Colls. Co	858	Rush Run	2 drifts	Rush Run
363	Ninth	The New River Colls. Co	923	Sun No. 1	slope	Sun
364	Ninth	The New River Colls. Co	924	Sun No. 2	shaft	Sun
365	Ninth	The New River Colls. Co	925	Sun No. 3	slope	Sun
366	Ninth	The Dungen Coal Co	901	Dungen No. 1	drift	Thurmond
367	Ninth	The Dungen Coal Co	902	Dungen No. 2	drift	Thurmond
368	Ninth	Newlyn Coal Co	903	Newlyn	5 drifts	Newlyn
369	Ninth	Meadow Fork Coal Co	904	Meadow Fork	drift	Newlyn
370	Ninth	The Star Coal & Coke Co	911	Star	drift	Red Star
371	Ninth	Laura Mining Co	907	Laura	drift	Glen Jean
372	Ninth	Nichol Colliery Co	922	Nichol	drift	Glen Jean
373	Ninth	McKell Coal & Coke Co	926	Berrydale	drift	Glen Jean
374	Ninth	McKell Coal & Coke Co	934	Kilsyth	drift	Glen Jean
375	Ninth	Harvey Coal & Coke Co	905	Harvey No. 1	drift	Harvey
376	Ninth	Harvey Coal & Coke Co	903	Harvey No. 2	drift	Harvey
377	Ninth	Prudence Coal Co	908	Prudence	drift	Prudence

e Eighth District—J. A. Straughen, Inspector until March 31, 1909.

n Ninth District—John Phillips, Inspector until April 30, 1909.

a Abandoned. i Idle all year.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
E. G. Blume	L. D. Rhodes	Sewell	3-0	furnace	45	314
J. A. Boone	A. R. Jones	Sewell	3-10	2 fans	139	315
C. D. Kirkpatrick	J. R. Fraser	Sewell	4-0	fan	106	316
C. D. Kirkpatrick	J. R. Fraser	Sewell	4-0	fan	317	317
C. McHolliday	C. W. Jones	Sewell	3-8	fan	46	318
Lee Long	Thomas Seacrist	Sewell	3-10	fan	114	319
Lee Long	Charles Higgins	Sewell	3-10	fan	66	320
George Holland	John Ohlinger	Sewell	3-8	fan & fur	84	321
George Holland	Fred Ohlinger	Sewell	3-8	natural	9	322
W. H. Rothwell	M. H. Blythe	Sewell	3-8	fan	50	323
D. W. Boone	J. A. McAllister	Sewell	3-8	fan	120	324
D. W. Boone	J. A. McAllister	Sewell	4-0	fan	51	325
R. L. Walker	W. L. Herndon	Sewell	3-0	furnace	24	326
R. L. Walker	W. L. Herndon	Sewell	3-0	furnace	9	327
R. L. Walker	W. L. Herndon	Sewell	3-2	fan	90	328
H. H. Blackburn	Charles Chamberlain	Fire Creek	3-6	fan	80	329
H. H. Blackburn	Charles Chamberlain	Fire Creek	3-6	fan	330	330
H. B. Berry	Peter Wolf	Fire Creek	4-0	fan	75	331
J. H. Dempsey	O. C. Wiseman	Fire Creek	3-0	fan	23	332
J. H. Dempsey	G. D. McDaniel	Fire Creek	3-6	fan	54	333
E. L. Hawley	R. B. Hanna	Fire Creek	4-6	fan	104	334
E. L. Hawley	R. B. Hanna	Fire Creek	4-6	fan	58	335
George Lawton	S. M. Peters	Fire Creek	4-0	fan	32	336
Robert Watson	Richard Clyde	Fire Creek	3-6	3 fans	184	337
J. H. Dempsey	John Harris	Fire Creek	3-0	fan	39	338
E. E. Huddleston	C. A. Parcell	Fire Creek	3-0	fan	40	339
J. W. Lawton	J. W. Whitlock	Fire Creek	4-0	fan	58	340
C. B. Helwig	J. E. Lesuer	Fire Creek	4-0	natural	57	341
J. C. Gallandt	Ed. Gordon	Fire Creek	4-0	fan	75	342
Wm. A. Brown	Hen. Peters, J. H. Wood	Fire Creek	4-0	fan	100	343
J. A. Brown	D. S. Brown	Fire Creek	4-0	fan	110	344
H. M. Bertolet	L. Nahodil	Fire Creek	4-0	fan	255	345
J. Clapperton, Jr.	Ben Titlow	Fire Creek	4-0	fan	26	346
J. Clapperton, Jr.	H. S. Wood	Sewell	4-0	2 fans	190	347
J. Clapperton, Jr.	W. H. Steen	Sewell	4-0	2 fans	165	348
J. Clapperton, Jr.	T. S. Askey	Sewell	4-0	fan	153	349
J. Clapperton, Jr.	John Lindley	Sewell	4-0	fan	154	350
Jas. D. Boone	L. F. Hess	Nuttall	3-6	furnace	11	351
Jas. D. Boone	D. A. Stull	Nuttall	3-0	furnace	10	352
Wm. Barrick	Joseph Shorthouse	Sewell	3-8	fan	184	353
Wm. Barrick	Joseph Shorthouse	Sewell	3-0	furnace	58	354
H. A. Mosely	R. O. Davenport	Sewell	3-4	fan	45	355
G. H. Caperton	Robert Boyd	Sewell	3-8	fan	106	356
Gilbert Smith	W. E. Morton	Sewell	4-0	fan	93	357
Gilbert Smith	T. G. Burke	Fire Creek	4-0	fan	45	358
James Martin		Sewell	4-0	natural		359
James Martin	A. S. Thompson	Sewell	4-6	fan	150	360
James Martin	Robert Wallace	Fire Creek	5-0	fan	151	361
James Martin	W. B. Nesbit	Fire Creek	5-6	fan	148	362
James Martin	Zack Evans	Sewell	5-4	fan	129	363
James Martin	Zack Evans	Sewell	5-4	fan	129	364
James Martin	Zack Evans	Sewell	5-4	fan	60	365
Thomas Boyd	Thomas Boyd	Sewell	4-5	fan	51	366
Thomas Boyd	Thomas Boyd	Sewell	4-5	furnace	367	367
H. P. Thomas	H. P. Thomas	Fire Creek	2-7	natural	22	368
Ed. Thomas	H. Meadows	Sewell	5-2	furnace	35	369
D. Evandoll	P. B. Evandoll	Sewell	5-0	fan	143	370
Thomas Nichol	Thomas Morgan	Sewell	5-6	fan	54	371
J. R. Sharpe	W. Whatkeys	Sewell	5-6	fan	84	372
T. A. Lewis	Sam Bryant	Sewell	5-6	fan	114	373
R. A. McClure	T. T. Lewis	Sewell	5-6	fan	312	374
John Clark	Ed. Jones	Sewell	4-4	fan	92	375
John Clark	Ed. Jones	Sewell	4-4	fan	376	376
J. N. Schweitzer	E. J. Robertson	Sewell	5-0	fan	377	377

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Fayette County—Con't.</i>						
378	Ninth	Prudence Coal Co.	909	Lyman	drift	Prudence
379	Ninth	Prudence Coal Co.	910	Jones	drift	Prudence
380	Ninth	Collins Colliery Co.	912	No. 1	drift	Glen Jean
381	Ninth	Collins Colliery Co.	913	No. 2	drift	Glen Jean
382	Ninth	White Oak Fuel Co.	914	Wingrove	shaft	Scarbrough
383	Ninth	White Oak Fuel Co.	915	Scarbrough	shaft	Scarbrough
384	Ninth	White Oak Fuel Co.	916	Whipple	shaft	Whipple
385	Ninth	White Oak Fuel Co.	917	Carlisle	shaft	Carlisle
386	Ninth	White Oak Fuel Co.	918	Oakwood	shaft	Carlisle
387	Ninth	Stuart Colliery Co.	919	Parral	shaft	Parral
388	Ninth	Stuart Colliery Co.	920	Beech Creek	drift	Parral
389	Ninth	Stuart Colliery Co.	921	Stuart	shaft	Stuart
390	Ninth	Dunn Loop Coal & C. Co.	927	Dunn Loop No. 1	drift	Dunnloop
391	Ninth	Dunn Loop Coal & C. Co.	928-9	Dunn Loop No. 1 & 2	drift	Dunnloop
392	Ninth	Macdonald Colliery Co.	951	Macdonald	drift	Macdonald
393	Ninth	Sugar Creek Coal & C. Co.	932	Sugar Creek	slope	Macdonald
394	Ninth	Price Hill Fuel Co.	935	Sherwood	shaft	Price Hill
395	Ninth	Turkey Knob Coal Co.	930	Turkey Knob	drift	Macdonald
396	Ninth	Mt. Hope Coal & C. Co.	933	Baby	drift	Mt. Hope
<i>Kanawha County.</i>						
397	Fifth	Falling Rock Cannel C. Co.	521	a Jones No. 1	drift	Weir
398	Fifth	Falling Rock Cannel C. Co.	522	Jones No. 2	drift	Weir
399	Fifth	Queen Shoals Coal Co.	523	Queen Shoals	drift	Queen Shoals
400	Fifth	Queen Coal Co.	524	Turner	drift	Heatherman
401	Fifth	The Elk Coal Co.	524	Turner	drift	Heatherman
402	Fifth	Pen Mar Mining Co.	520	Pen Mar	drift	Big Chimney
403	Fifth	The Clay Coal Co.	529	Bradley White Ash	drift	Barren Creek
404	Fifth	Harts Branch Coal Co.	528	i Harts Branch	drift	Queen Shoals
405	Fifth	Mill Creek Cannel Coal Co.	518	Mill Creek	drift	Villa
406	Fifth	Blue Creek Coal & Land Co.	530	Wills Hollow No. 1	drift	Blakely
407	Fifth	Blue Creek Coal & Land Co.	531	Wills Hollow No. 2	drift	Blakely
408	Fifth	Blue Creek Coal & Land Co.	532	Blakely No. 3	drift	Blakely
409	Fifth	Roderick Coal Co.	537	Roderick	drift	Quick
410	Fifth	Acme Steam Co.	538	Acme	drift	Quick
411	Fifth	Williams Coal Co.	539	Williams	drift	Blakely
412	Fifth	Kendalla Coal & Coke Co.	540	* Perbelkin No. 1	drift	Blakely
413	Fifth	Black Hawk Coal Co.	541	i Black Hawk	drift	Charleston
414	Fifth	The Campbells Creek C. Co.	542	No. 1	4 drifts	Dana
415	Fifth	Quincy Coal Co., Inc.	546	No. 1	drift	Quincy
416	Fifth	Quincy Coal Co., Inc.	547	No. 2	drift	Quincy
417	Fifth	Sunday Creek Co.	548	No. 101	drift	Cedar Grove
418	Fifth	Sunday Creek Co.	549	No. 104	drift	Cedar Grove
419	Fifth	Sunday Creek Co.	550	No. 105	drift	Cedar Grove
420	Fifth	Sunday Creek Co.	551	i No. 106	drift	Cedar Grove
421	Fifth	Sunday Creek Co.	552	i No. 108	drift	Cedar Grove
422	Fifth	Sunday Creek Co.	553	No. 109	drift	Cedar Grove
423	Fifth	The New Cedar Grove Coal & Brick Co.	554	Boyd	2 drifts	Cedar Grove
424	Fifth	Kellys Creek Colliery Co.	555	No. 1	drift	Ward
425	Fifth	Kellys Creek Colliery Co.	556	No. 3	drift	Ward
426	Fifth	Kellys Creek Colliery Co.	558	No. 4	drift	Ward
427	Fifth	Hughes Creek Coal Co.	559	Hughes No. 2	drift	Hughes
428	Fifth	Hughes Creek Coal Co.	560	Hughes No. 3	drift	Hughes
429	Fifth	Cannelton Coal Co.	561	Cannelton No. 2	drift	Cannelton
430	Fifth	The Marmet Coal Co.	562	Monarch No. 1	drift	Monarch
431	Fifth	The Marmet Coal Co.	563	Monarch No. 2	drift	Monarch
432	s Sixth	The Marmet Coal Co.	612	s Butler	drift	Marmet
433	s Sixth	The Marmet Coal Co.	614	Butler No. 2	drift	Marmet
434	s Sixth	The Marmet Coal Co.	613	Butler No. 5	drift	Marmet
435	s Sixth	Olcott Coal & Iron Co.	603	Olcott No. 1	drift	Olcott

n Ninth District—John Phillips, Inspector until April 30, 1909.

s Sixth District—Bonner H. Hill, Inspector. i Idle all year.

a Abandoned. f Fifth District—Earl A. Henry, Inspector.

* Not yet in operation.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. N. Schweitzer	E. J. Robertson	Sewell	5-0	fan	131	378
J. N. Schweitzer	E. J. Robertson	Sewell	5-0	fan		379
R. C. Newman	J. W. Wedgewood	Sewell	5-0	) fan	228	380
R. C. Newman	J. W. Wedgewood	Sewell	5-0			381
John Holmes	John Holmes	Sewell	5-4	fan	111	382
A. D. Callihan	R. Brabben	Sewell	4-6	fan	125	383
Wm. Farrell	Sam Hale	Sewell	4-6	fan	100	384
E. Cockburn	Wm. A. Jones	Sewell	4-0	fan	105	385
E. Cockburn	Wm. A. Jones	Sewell	4-4	fan	120	386
Evan Cockburn	John Powell	Sewell	4-2	fan	94	387
Evan Cockburn	E. L. Watson	Eagle	3-7	furnace	18	388
W. J. Heatherman	Isaac Pelter	Sewell	4-2	fan	64	389
B. H. Morrison	John Ord	Sewell	5-6	natural	20	390
B. H. Morrison	Andy Williams	Sewell	5-8	fan & fur	134	391
W. R. Thurmond	George Buckley	Sewell	4-10	fan	155	392
F. L. Ramsey	F. L. Ramsey	Sewell	5-6	fan	105	393
E. Pinkney	Wm. Brabben	Sewell	4-11	fan	67	394
H. B. Clarkson	J. E. Morton	Sewell	6-0	fan	108	395
A. P. Bailey, Pres.		Sewell	6-0	natural	2	396
R. B. Young	R. B. Young	Cannel	3-0	fan	22	397
R. B. Young	R. B. Young	Cannel	3-0	fan		398
W. R. Morris	George W. Miller	Mason or No. 5	4-0	furnace	31	399
A. H. Lee	C. G. Culley	Mason or No. 5	4-0	fan	44	400
W. R. Morris	T. L. Chandler	Mason or No. 5	4-0	fan	41	401
Jacob Householder	Jacob Householder	N. Coalb'g	4-4	natural	8	402
George W. Gaghan	Henry Tucker	No. 5	4-0	furnace	52	403
		No. 5	3-10	furnace		404
R. W. Brunk	R. W. Brunk	Cannel	3-6	fan	50	405
D. H. Morton	S. V. Elkins	No. 5	4-6	fan	48	406
D. H. Morton	S. V. Elkins	No. 5	4-6	fan	36	407
D. H. Morton	R. L. Miller	No. 5	5-0	fan	45	408
T. A. Leyshon	D. D. Williams	No. 5	4-6	fan	51	409
T. A. Leyshon	D. D. Williams	No. 5	4-6	fan	15	410
S. B. Williams	Wm. Hornby	No. 5	4-0	furnace	16	411
		No. 5	4-0			412
		Coalburg	5-0	natural		413
W. V. Rensford	Andrew Calderwood	No. 5	5-0	2 fans	213	414
J. L. Dickinson	F. C. Morris	Coalburg	4-6	fan	17	415
J. L. Dickinson	J. M. Kelley	No. 5	5-6	fan	40	416
J. W. Taylor	J. A. Neylor	No. 5	5-6	fan	110	417
J. W. Taylor	Wm. Martin	Coalburg	4-10	fan	98	418
J. W. Taylor	Wm. Welsch	Coalburg	5-0	fan	171	419
		No. 5	5-0	fan		420
		Coalburg	5-0	fan		421
J. W. Taylor	D. B. Ross	No. 5	5-9	fan	83	422
Thomas Boyd	Thomas Boyd	Cd'r Gr'Ve	2-9	furnace	24	423
H. T. Smarr	H. E. Taylor	Coalburg	4-6	fan	93	424
H. T. Smarr	H. E. Taylor	Coalburg	5-8	fan	158	425
H. T. Smarr	H. E. Taylor	Coalburg	5-8	fan		426
J. W. Moore	John Nugen	Coalburg	4-6	fan	189	427
J. W. Moore	John Rhodes	Coalburg	4-6	fan		428
Langdon Lee	Neil McCafferty	No. 2 Gas	7-0	fan	136	429
R. T. Price	Charles King	C'dr Gr'Ve	3-2	fan	86	430
R. T. Price	Charles King	C'dr Gr'Ve	3-2	fan		431
R. T. Price	Sam Selby	Winifrede	4-6	fan	25	432
R. T. Price	Joe Griffith	Lens Cr'k	3-0	fan	40	433
R. T. Price	John Shephard	No. 5	6-0	nat. & fur	27	434
F. M. Palmer	George Carey	Bl'k Band	3-4	4 fans	50	435

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Kanawha County—Cont.</i>						
436	Sixth	Olcott Coal & Iron Co.	602	Olcott No. 2	drift	Olcott
437	Sixth	Frank Ellison	615	Peerless	drift	Lewistown
438	Sixth	Winifrede Coal Co.	616	i Gas	drift	Winifrede
439	Sixth	Winifrede Coal Co.	618	South	drift	Winifrede
440	Sixth	Winifrede Coal Co.	620	North Pick	drift	Winifrede
441	Sixth	Winifrede Coal Co.	619	North Machine	drift	Winifrede
442	Sixth	Winifrede Coal Co.	617	West	drift	Winifrede
443	Sixth	Winifrede Coal Co.	617a	New Coalburg	drift	Winifrede
444	Sixth	Winifrede Coal Co.				
445	Sixth	Dry Branch Coal Co.	621	Gas or No. 1	drift	Dry Branch
446	Sixth	Dry Branch Coal Co.	622	Coalburg or No. 2	drift	Dry Branch
447	Sixth	Dry Branch Coal Co.	623	Belmont	drift	Dry Branch
448	Sixth	Coalburg Colliery Co.	624	Ronda	drift	Ronda
449	Sixth	Wyatt Coal Co.	628	Oakley	drift	Sharon
450	Sixth	Wyatt Coal Co.	652	Berlin	drift	Sharon
451	Sixth	Wyatt Coal Co.	625	i North Horton	drift	Sharon
452	Sixth	Wyatt Coal Co.	626	South Horton	drift	Sharon
453	Sixth	Chelyan Fuel Co.	667	Coaling Station	drift	Chelyan
454	Sixth	Persinger Coal Co.	627	Wilton	drift	Miami
455	Sixth	Lamont Mining Co.	630	La Mont Nos. 1 & 2	2 drifts	Beth
456	Sixth	Lamont Mining Co.	631	La Mont Nos. 3 & 5	2 drifts	Beth
457	Sixth	Holley & Stephenson Coal & Coke Co.	632	i No. 1	drift	Eskdale
458	Sixth	Holley & Stephenson Coal & Coke Co.	633	Stephenson No. 2	drift	Eskdale
459	Sixth	Holley & Stephenson Coal & Coke Co.	634	i Coalburg	drift	Eskdale
460	Sixth	Holley & Stephenson Coal & Coke Co.	635	No. 5	drift	Eskdale
461	Sixth	Wake Forest Mining Co.	651	Wake Forest	drift	Wake Forest
462	Sixth	Carbon Coal Co.	653	North	drift	Carbon
463	Sixth	Carbon Coal Co.	662	South	drift	Carbon
464	Sixth	Carbon Coal Co.	663	South Splint	drift	Carbon
465	Sixth	Republic Coal Co.	664	No. 1	drift	Carbon
466	Sixth	Republic Coal Co.	665	No. 2	drift	Carbon
467	Sixth	Republic Coal Co.	666	No. 3	drift	Carbon
468	Sixth	West Virginia Colliery Co.	655	No. 1	drift	Wevaco
469	Sixth	West Virginia Colliery Co.	658	No. 2	drift	Wevaco
470	Sixth	West Virginia Colliery Co.	659	No. 3	drift	Wevaco
471	Sixth	West Virginia Colliery Co.	660	No. 4	drift	Wevaco
472	Sixth	Cabin Creek Cons. Coal Co.	629	Davis	drift	Kayford
473	Sixth	Cabin Creek Cons. Coal Co.	636	Cherokee	drift	Kayford
474	Sixth	Cabin Creek Cons. Coal Co.	637	Caledonia	drift	Kayford
475	Sixth	Cabin Creek Cons. Coal Co.	638	Red Warrior	drift	Kayford
476	Sixth	Cabin Creek Cons. Coal Co.	639	Buckeye	drift	Kayford
477	Sixth	Cabin Creek Cons. Coal Co.	640	Empire	drift	Kayford
478	Sixth	Cabin Creek Cons. Coal Co.	641	Black Tulip	drift	Kayford
479	Sixth	Cabin Creek Cons. Coal Co.	642	Keystone	drift	Kayford
480	Sixth	Cabin Creek Cons. Coal Co.	643	Acme	drift	Kayford
481	Sixth	Cabin Creek Cons. Coal Co.	644	Shamrock	drift	Kayford
482	Sixth	Cabin Creek Cons. Coal Co.	645	Thistle	drift	Kayford
483	Sixth	Cabin Creek Cons. Coal Co.	646	Raccoon	drift	Kayford
484	Sixth	Cabin Creek Cons. Coal Co.	669	Raccoon Splint	drift	Kayford
485	Sixth	Cabin Creek Cons. Coal Co.	647	Rose	drift	Kayford
486	Sixth	Cabin Creek Cons. Coal Co.	648	Kayford	drift & sl	Kayford
487	Sixth	Cabin Creek Cons. Coal Co.	649	Holly	drift	Kayford
488	Sixth	Cabin Creek Cons. Coal Co.	650	Quarrier	drift	Kayford
489	Sixth	Cabin Creek Cons. Coal Co.	656	United Gas	drift	Kayford
490	Sixth	Cabin Creek Cons. Coal Co.	657	United Splint	drift	Kayford
491	Sixth	Cabin Creek Cons. Coal Co.	661	Belleclare	drift	Kayford
492	Sixth	Cabin Creek Cons. Coal Co.	654	Ruby	drift	Kayford
493	Sixth	Paint Creek Collieries Co.	601	Reynolds	drift	Mucklow
494	Sixth	Paint Creek Collieries Co.	604	Knickerbocker	drift	Mucklow
495	Seventh	Paint Creek Collieries Co.	710	Scranton	drift	Mucklow

e Seventh District—Wm. Warner, Inspector.

i Idle all year. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
F. H. Palmer	George Carey	Bl'k Band	3-11	2 fans	59	436
A. M. Wooldridge	James Hemmings	Peerless	2-5	fan	27	437
		Peerless	2-4	fan		438
Wm. Crichton	D. W. Richards	Winifrede	4-8	fan	94	439
Wm. Crichton	W. H. Stewart	Winifrede	4-8	fan		440
Wm. Crichton	W. H. Stewart	Winifrede	4-8	fan	85	441
Wm. Crichton	E. E. Dobbs	Winifrede	4-2	fan	59	442
Wm. Crichton	Wm. Crichton, Jr.	Coalburg	4-6	fan	88	443
						444
C. G. Wood	G. W. Stone	Cd'r Gr' ve	3-6	fan	50	445
C. G. Wood	G. W. Stone	Coalburg	6-0	fan	19	446
C. G. Wood	G. W. Stone	Lewiston	3-6	fan	56	447
C. F. Slack	Dan Mairs	Coalburg	6-0	fan	71	448
J. S. Miller	Ed. Glover	Lewiston	4-0	fan	51	449
J. S. Miller	John Mandt	No. 2 Gas	5-6	fan	68	450
J. S. Miller		Coalburg	6-0	fan		451
J. S. Miller	John Pettry	Coalburg	4-0	fan	85	452
W. M. Rollins	W. M. Rollins	Peerless	2-6	furnace	11	453
J. T. McAllister	L. K. McAllister	C'dr Gr' ve	3-4	fan	14	454
Paul L. James	W. T. Gosney	No. 2 Gas	3-10	fan	10	455
Paul L. James	W. T. Gosney	Lewiston	6-0	fan	53	456
		No. 2 Gas	3-4	fan		457
F. H. McClung	J. M. McDonough	No. 2 Gas	5-0	fan	56	458
		Coalburg	3-8	furnace		459
F. H. McClung	D. A. Hemmings	No. 5 Sp'lt	6-0	fan	40	460
J. C. Grymes	Fred Morot	No. 2 Gas	5-0	fan	56	461
J. C. Gilmore, Sr	Cabell Pierce	No. 2 Gas	5-4	fan	43	462
J. C. Gilmore, Sr	W. T. Ivers	No. 2 Gas	5-4	3 fans	42	463
J. C. Gilmore, Sr	Thomas Gosnay	No. 5	6-0	fan	44	464
M. W. Murphy	John Hughes	No. 2 Gas	5-4	fan	60	465
M. W. Murphy	O. Meadows	No. 2 Gas	5-4	fan	59	466
M. W. Murphy	John Shawhen	No. 2 Gas	5-4	fan	44	467
K. D. Quarrier	Thomas McGary	No. 2 Gas	5-4	fan	76	468
K. D. Quarrier	J. C. Smith	No. 2 Gas	5-4	fan	30	469
K. D. Quarrier	C. L. Petty	Coalburg	6-0	fan	42	470
K. D. Quarrier	G. E. Stanley	No. 2 Gas	5-4	2 fans	42	471
R. E. Thompson	R. E. Thompson	Lewiston	5-0	fan	48	472
H. L. Fisher	Andy Yeck	No. 2 Gas	5-0	fan	51	473
H. L. Fisher	H. M. Daniels	No. 2 Gas	4-4	fan	34	474
H. L. Fisher	J. W. Gay	No. 2 Gas	4-6	fan	54	475
J. A. Straughan	Wm. Cainer	No. 2 Gas	5-10	fan	30	476
J. A. Straughan	T. J. Baldwin	No. 2 Gas	4-8	fan	44	477
J. A. Straughan	Frank Scherer	No. 2 Gas	4-10	fan	26	478
J. A. Straughan	John T. Scott	No. 2 Gas	4-0	fan	54	479
J. A. Straughan	R. G. Poff	No. 2 Gas	5-0	fan	28	480
W. A. Otey	J. A. Bragg	No. 2 Gas	5-10	fan	64	481
W. A. Otey	T. B. Fisher	No. 2 Gas	4-10	fan	44	482
W. A. Otey	John Dower	No. 2 Gas	5-0	fan	46	483
W. A. Otey	V. A. Miller	Lo. Fr' pt	7-10	natural	39	484
W. A. Otey	W. S. Holmes	Coalburg	6-0	fan	75	485
W. A. Otey	M. Darby	No. 2 Gas	5-8	fan	83	486
H. L. Fisher	M. J. Fisher	No. 2 Gas	4-8	fan	42	487
H. L. Fisher	J. N. Bringham	No. 2 Gas	5-0	fan	53	488
A. P. Scherer	J. H. Titlow	No. 2 Gas	5-2	fan	94	489
A. P. Scherer	D. S. Holmes	Coalburg	5-0	fan	44	490
A. P. Scherer	Joe Filkins	No. 2 Gas	4-10	2 fans	44	491
A. P. Scherer	Henry Roberts	Coalburg	5-3	fan	39	492
S. E. Childers	W. E. Clendennin	Bl'k Band	4-0	fan	74	493
S. E. Childers	W. E. Miller	Bl'k Band	3-4	fan	78	494
J. A. Greene	John Cox	Coalburg	5-0	fan	76	495

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Open- ing.	Post Office Address.
Kanawha County—Con't						
496	Seventh	Paint Creek Collieries Co.	711	Paint Creek	drift	Mucklow
497	Seventh	Paint Creek Collieries Co.	712	Wacomah	drift	Mucklow
498	Seventh	Paint Creek Collieries Co.	713	Banner No. 1	drift	Mucklow
499	Seventh	Paint Creek Collieries Co.	714	Banner No. 2	drift	Mucklow
500	Seventh	Paint Creek Collieries Co.	716	Detroit	drift	Mucklow
501	Seventh	Paint Creek Collieries Co.	717	i Morton No. 1	drift	Mucklow
502	Seventh	Paint Creek Collieries Co.	718	i Morton No. 2	drift	Mucklow
503	Seventh	Paint Creek Collieries Co.	719	i Nuckols	drift	Mucklow
504	Seventh	Paint Creek Collieries Co.	720	Grose No. 1	drift	Mucklow
505	Seventh	Paint Creek Collieries Co.	721	Grose No. 2	drift	Mucklow
506	Seventh	Paint Creek Collieries Co.	721a	i Greenbrier No. 1	drift	Mucklow
507	Seventh	Paint Creek Collieries Co.	722	Greenbrier No. 2	drift	Mucklow
508	Seventh	Paint Creek Collieries Co.	723	Greenbrier No. 3	drift	Mucklow
509	Seventh	The Coalburg-Kanawha Coal Co.	702	"A"	drift	Coalburg
510	Seventh	The Coalburg-Kanawha Coal Co.	703	"B"	drift	Coalburg
511	Seventh	Southwestern Spl't Fuel Co	705	Coalburg	drift	Grafton & Hans- ford
512	Seventh	Southwestern Spl't Fuel Co	706	c Lewiston	drift	Grafton & Hans- ford
513	Seventh	Equitable Coal Co.	709	Coalburg No. 8	drift	Hansford
514	Seventh	Standard Splint & Gas C. Co	715	Standard	drift	Standard
515	Seventh	Imperial Colliery Co.	724	No. 1	drift	Burnwell
516	Seventh	Imperial Colliery Co.	725	i No. 2	drift	Burnwell
517	Seventh	Imperial Colliery Co.	726	No. 3	drift	Burnwell
518	Seventh	Chesapeake Mining Co.	727	Chesapeake No. 1	d.ift	Handley
519	Seventh	Chesapeake Mining Co.	728	Chesapeake No. 2	drift	Handley
520	Seventh	Chesapeake Mining Co.	729	Chesapeake No. 3	drift	Handley
521	Seventh	Montgomery Coal Co.	730	Hickory Nut	drift	Handley
522	Seventh	Montgomery Coal Co.	733	Upper Creek	drift	Handley
523	Seventh	Morris Creek Coal Co.	734	Morris Creek	drift	Donwood
Boone County.						
524	s Sixth	The Coal River Co.	671	Ottawa	drift	Jeffrey
525	s Sixth	The Spruce River Coal Co.	672	Ramage No. 1	drift	Greenview
526	s Sixth	The Spruce River Coal Co.	673	Ramage No. 2	drift	Greenview
527	s Sixth	The Spruce River Coal Co.	674	Ramage No. 3	drift	Greenview
Nicholas County.						
528	e Seventh	Kentucky Coal & Lum. Co	772	Mount Carmel	drift	Dixie
529	Seventh	Kentucky Coal & Lum. Co	773	i Cambria	drift	Dixie
530	Seventh	Kentucky Coal & Lum. Co	774	i National	drift	Dixie
531	Seventh	Arminius Coal Co.	775	Arminius	drift	Scotford
532	Seventh	Raven Collieries	771	Raven	drift	Greendale
533	Seventh	Pardee & Curtin Lum. Co.	779	Panther Creek	drift	Curtin
534	Seventh	Saxman Coal & Coke Co.	776	Saxman	drift	Fenwick
Greenbrier County.						
535	Eighth.	Elk Lick Coal Co.	780	Lost Flat	drift	Richwood
Raleigh County.						
536	s Sixth	Big Coal Co.	670	Dorothy	drift	Dorothy
537	n Ninth.	The New River Colls. Co.	941	Royal	drift	Prince
538	Ninth	The New River Colls. Co.	941	i Mill Creek	drift	Prince
539	Ninth	The New River Colls. Co.	948	Lanark No. 3	drift	Lanark
540	Ninth	The New River Colls. Co.	949	Lanark No. 4	drift	Lanark
541	Ninth	The New River Colls. Co.	973	Eccles No. 11	shaft	Eccles
542	Ninth	The New River Colls. Co.	974	i Eccles No. 12	shaft	Eccles
543	Ninth	McKell Coal & Coke Co.	937	Oswald	drift	Glen Jean
544	Ninth	McKell Coal & Coke Co.	938	Sidney	drift	Glen Jean
545	Ninth	McKell Coal & Coke Co.	939	Graham	drift	Glen Jean
546	Ninth	McKell Coal & Coke Co.	940	Tamroy	drift	Glen Jean
547	Ninth	Wright Coal & Coke Co.	942	Wright No. 1	2 drifts	Wright

e Seventh District—Wm. Warner, Inspector. s Sixth District—Bonner H. Hill, Inspector.
n Ninth District—John Phillips, Inspector until April 30, 1909. i Idle all year.

c Closed indefinitely November, 1907. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. A. Greene	T. M. Burke	Coalburg	7-6	fan	102	496
J. A. Greene	Henry Johnson	Coalburg	5-0	fan	53	497
J. A. Greene	D. L. Waters	Coalburg	6-6	fan	41	498
J. A. Greene	D. L. Waters	Lewiston	4-8	furnace	25	499
J. A. Greene	Richard Gill	Eagle	4-0	fan	26	500
		Eagle	3-10	furnace		501
		Eagle	3-10	furnace		502
		Eagle	3-9	furnace		503
Frank Kerns	P. F. Berry	Eagle	3-6	fan	31	504
Frank Kerns	V. D. Johnson	Powellton	6-0	furnace	30	505
						506
Frank Kerns	Ed. Sims	No. 2 Gas	5-0	fan	52	507
Frank Kerns	Lee Patrick	Winifrede	6-0	fan	27	508
J. A. Willis	J. N. Bergraff	Coalburg	6-0	fan	49	509
J. A. Willis	J. N. Bergraff	Lewiston	3-6	furnace	17	510
A. P. Brady	Wm. Poff	Coalburg	6-0	fan	56	511
A. P. Brady	Wm. Poff	Coalburg	6-0	fan		512
E. S. Brewer	E. S. Brewer	Coalburg	4-9	fan	75	513
W. S. Wood	Ed Foster	Coalburg	7-6	fan	83	514
Quinn Morton	L. R. Howell	Eagle	6-0	fan	76	515
		Eagle	3-6	fan		516
Quinn Morton	Homer Howell	Eagle	4-0	fan	76	517
J. H. Carter	J. F. White	Kanawha	5-9	fan	109	518
J. H. Carter	J. W. Frazier	No. 2 Gas	4-4	fan		519
J. H. Carter	J. W. Frazier	Coalburg	5-2	fan	120	520
S. H. Montgomery	S. P. Johnson	Kanawha	6-0	2 fans		521
S. H. Montgomery	S. P. Johnson	Kanawha	6-0	fan	72	522
Geo. Fraser	James Fraser	Winifrede	4-6	fan	28	523
J. M. Moore	Ed Zwilling	Eagle	5-3	fan	12	524
J. B. Ramage	J. B. Ramage	Eagle	5-6	natural		525
J. B. Ramage	J. B. Ramage	Eagle	5-6	natural	8	526
J. B. Ramage	J. B. Ramage	Eagle	5-6	natural		527
L. D. Burns, Agent	W. H. Morris	Coalburg	4-0	fan	16	528
L. D. Burns, Agent	W. H. Morris	Coalburg	4-6	furnace		529
L. D. Burns, Agent	W. H. Morris	Coalburg	4-0	furnace		530
G. E. Smith	S. W. Smith	Coalburg	4-4	furnace	27	531
Frank H. Snyder	Jno. Blizzard	Coalburg	4-0	fan	29	532
C. B. Mayo	J. M. Boggs	Coalburg	4-0	air shaft	5	533
R. W. Hayes	Thomas Jones	Sewell	3-0	furnace	24	534
H. W. Armstrong	H. P. Jones	Fire Creek	4-0	fan	45	535
Chas. E. Sandberg	C. E. Foster	Coalburg	11-6	fan	162	536
James Martin	R. C. Hume	Fire Creek	2-6	fan	30	537
James Martin		Fire Creek	2-6			538
James Martin	C. A. Lawson	Sewell	5-3	furnace	20	539
James Martin	C. A. Lawson	Sewell	5-3	fan	64	540
James Martin	L. Blankensopp	Beckley	5-0	fan	100	541
James Martin		Beckley	5-6	fan		542
C. W. Carmen	Geo. Smith	Sewell	4-6	fan		543
C. W. Carmen	Geo. Smith	Sewell	4-6	fan		544
F. Hinson	Frank Beard	Sewell	4-10	fan	59	545
F. Hinson	D. Nuckolls	Sewell	4-10	furnace	35	546
C. Gressang	Arnold Ford	Fire Creek	4-0	2 fans	83	547

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	NAME OF COMPANY.	No. Series	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Raleigh County—Con't.</i>						
548	Ninth	Wright Coal & Coke Co.	943-4	Wright No. 2 & 3	drift	Wright
549	Ninth	Stonewall Coal & Coke Co.	947	Terry or No. 2	drift	Terry
550	Ninth	Stonewall Coal & Coke Co.	945	Stonewall No. 3	drift	Stonewall
551	Ninth	Stonewall Coal & Coke Co.	946	Stonewall No. 4	drift	Stonewall
552	Ninth	Piney Mining Co.	982	No. 1	drift	Stanaford
553	Ninth	Piney Mining Co.	950	No. 2	drift	Stanaford
554	Ninth	Piney Mining Co.	951	No. 3	drift	Stanaford
555	Ninth	Piney Mining Co.	952	No. 4	drift	Stanaford
556	Ninth	Piney Mining Co.	954	i No. 6	drift	Stanaford
557	Ninth	Raleigh Coal & Coke Co.	955	Raleigh No. 1	drift	Raleigh
558	Ninth	Raleigh Coal & Coke Co.	956	Raleigh No. 2	drift	Raleigh
559	Ninth	Raleigh Coal & Coke Co.	958	Raleigh No. 3	drift	Raleigh
560	Ninth	Raleigh Coal & Coke Co.	957	Raleigh No. 4	drift	Raleigh
561	Ninth	Raleigh Coal & Coke Co.	959	Raleigh No. 5	drift	Raleigh
562	Ninth	Raleigh Coal & Coke Co.	960	Raleigh No. 6	drift	Raleigh
563	Ninth	Blue Jay Lumber Co.	961	Raleigh No. 4	drift	Blue Jay
564	Ninth	Sullivan Coal & Coke Co.	962	North & South	4 drift	Sullivan
565	Ninth	Cranberry Fuel Co.	966	Sprague	slope	Sprague
566	Ninth	Cranberry Fuel Co.	967	Skelton	slope	Macdonald
567	Ninth	Cranberry Fuel Co.	968	Cranberry	shaft	Cranberry
568	Ninth	Cranberry Fuel Co.	969	Prosperity	shaft	Cranberry
569	Ninth	Mabscott Coal & Coke Co.	970	Mabscott	drift	Mabscott
570	Ninth	Bekley Coal & Coke Co.	972	Bekley	slope	Wickham
571	Ninth	Price Hill Fuel Co.	936	Price Hill	shaft	Price Hill
572	Ninth	Home Coal Co.	971	a Lewis	drift	Wickham
573	Ninth	Slab Fork Coal Co.	975	Slab Fork No. 1	drift	Slab Fork
574	Ninth	Slab Fork Coal Co.	976	Slab Fork No. 2	drift	Slab Fork
575	Ninth	Slab Fork Coal Co.	980	Slab Fork No. 3	drift	Slab Fork
576	Ninth	Slab Fork Coal Co.	981	Slab Fork No. 4	drift	Slab Fork
577	Ninth	E. E. White Coal Co.	977	No. 1	shaft	Glen White
578	Ninth	E. E. White Coal Co.	978	No. 2	shaft	Glen White
579	Ninth	MacAlpin Coal Co.	979	J McAlpin	2 drifts	Hinton
<i>Mercer County.</i>						
580	Tenth	Mill Creek Coal & Coke Co.	1024	Coaldale	drift	Coopers
582	Tenth	Mill Creek Coal & Coke Co.	1026	East Mill Creek	drift	Coopers
583	Tenth	Mill Creek Coal & Coke Co.	1225	West Mill Creek	drift	Coopers
584	Tenth	Mill Creek Coal & Coke Co.	1028	Tug River	drift	Coopers
585	Tenth	Buckeye Coal & Coke Co.	1030	North	drift	Freeman
586	Tenth	Buckeye Coal & Coke Co.	1029	South	drift	Freeman
587	Tenth	Booth-Bowen Coal & C. Co.	1031	Booth-Bowen	drift	Freeman
588	Tenth	Pocahontas Cons. Colls. Co., Inc.	1032	Caswell-Hemlock	drift	Pocahontas, Va.
589	Tenth	Pocahontas Cons. Colls. Co., Inc.	1033	Caswell-Elkhorn	drift	Pocahontas, Va.
590	Tenth	Louisville Coal & Coke Co.	1035	Louisville	drift	Goodwill
591	Tenth	Louisville Coal & Coke Co.	1034	Goodwill	drift	Goodwill
592	Tenth	Cephus Coal Co.	1037	Cephus	drift	Godfrey
593	Tenth	Crystal Coal & Coke Co.	1838	Crystal Nos. 2 & 4	3 drifts	Godfrey
594	Tenth	American Coal Co. of Alleghany County	1040	Crane Creek No. 1	drift	McComas
595	Tenth	American Coal Co. of Alleghany County	1041	Crane Creek No. 2	drift	McComas
596	Tenth	American Coal Co. of Alleghany County	1042	Pinnacle North	drift	McComas
597	Tenth	American Coal Co. of Alleghany County	1043	Pinnacle South	drift	McComas
598	Tenth	American Coal Co. of Alleghany County	1048	Piedmont No. 1	drift	McComas
599	Tenth	American Coal Co. of Alleghany County	1048a	Piedmont No. 2	drift	McComas
600	Tenth	The Thomas Coal Co.	1044	Thomas	drift	McComas
601	Tenth	Pawama Coal & Coke Co.	1045	Nos. 1 & 2	2 drifts	Matoaka
602	Tenth	The Weyanoke Coal & C. Co.	1046	Weyanoke	drift	Giatto

n Ninth District—John Phillips, Mine Inspector until April 30, 1909.

t Tenth District—D. R. Phillips, Inspector until March 31, 1909.

J Just being developed. *i* Idle all year. *a* Abandoned.

**NAME OF SUPERINTENDENT. NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS. AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
C. Gressang	Geo. Moran	Fire Creek	4-6.	fan	91	548
F. M. Lee	W. H. Cross	Fire Creek	4-0.	fan	51	549
J. A. Bruebeck	O. L. Barrett	Sewell	5-0.	fan	42	550
J. A. Bruebeck	Frank Sample	Fire Creek	2-8.	furnace	10	551
Arthur Mitchell	F. R. Clark	Beckley	6-0.	fan	96	552
Arthur Mitchell	F. R. Clark	Beckley	6-0.	fan	35	553
Arthur Mitchell	M. L. McGuire	Sewell	4-0.	fan	56	554
Arthur Mitchell	W. Hurt	Beckley	5-0.	fan	48	555
Arthur Mitchell		Beckley	6-0.	fan		556
Ernest Chilson	T. L. Conway	Beckley	4-0.	fan		557
Ernest Chilson	T. L. Conway	Beckley	4-0.	fan	80	558
Ernest Chilson	T. L. Conway	Beckley	4-0.	fan		559
Ernest Chilson	John McArthur	Beckley	4-0.	fan	155	560
Ernest Chilson	J. T. Robertson	Sewell	3-8.	fan	41	561
Ernest Chilson	Ed Zwilling	Beckley	4-6.	fan	88	562
P. C. Lynch	Patrick McQuade	Beckley	5-0.	fan	40	563
Ed Hope	Ed Hope	Beckley	4-4.	fan & furn	55	564
Fred Dixon, Jr.	Wm. Crickmer	Sewell	3-6.	fan		565
Fred Dixon, Jr.		Sewell	4-6.	fan	115	566
Fred Dixon, Jr.	Jno. T. Davis	Sewell	4-6.	fan	83	567
Fred Dixon, Jr.	James Nesbet	Sewell	4-0.	fan	56	568
G. R. Krebs	W. D. Lee	Sewell	4-6.	fan	72	569
G. R. Krebs	R. B. Cobb	Sewell	4-6.	fan	238	570
E. Pinkney	Adam Lindley	Sewell	4-4.	fan	105	571
		Sewell	4-6.	fan		572
W. G. Carpenter	Wm. Hurt	Beckley	4-6.			573
W. G. Carpenter	Wm. Hurt	Beckley	4-6.			574
W. G. Carpenter	Wm. Hurt	Beckley	4-6.	fan	114	575
W. G. Carpenter	Wm. Hurt	Beckley	4-6.			576
Geo. D. Evans	Frank McHugh	Beckley	11-6.	fan	97	577
Geo. D. Evans		Beckley	11-6.			578
E. E. White, G. M., Wm. Laing		Beckley	11-0			579
						580
C. E. F. Burnley	J. T. Woods	Poca No. 3	8-4	fan	148	581
C. E. F. Burnley	J. W. Johnson	Poca No. 3	8-0.	fan		582
C. E. F. Burnley	J. W. Johnson	Poca No. 3	8-0.	fan	200	583
C. E. F. Burnley	J. W. Johnson	Poca No. 3	8-0.	fan		584
F. R. Hewitt	J. H. Williams	Poca No. 3	5-6.	fan		585
F. R. Hewitt	J. H. Williams	Poca No. 3	5-6.	fan	124	586
J. P. Bowen	B. F. Bray	Poca No. 3	7-6.	fan	105	587
Jas. E. Jones, G. M.	W. H. Walters	Poca No. 3	7-6.	fan		588
					300	
Jas. E. Jones, G. M.	W. H. Walters	Poca No. 3	7-6.	fan		589
Jairus Collins	J. W. Montgomery	Poca No. 3	4-5.	fan	175	590
Jairus Collins	J. W. Montgomery	Poca No. 3	4-5.	fan		591
P. J. Vigilani	D. M. Thompson	Poca No. 3	5-0.	furnace	22	592
W. H. Thomas	Walter Hall	Poca No. 3	4-6.	fan	163	593
T. O. Deaumer	J. H. Hughes	Poca No. 3	4-6.	fan		594
					157	
T. O. Deaumer	J. H. Hughes	Poca No. 3	4-6.	fan		595
T. O. Deaumer	J. L. Dewese	Poca No. 3	4-6.	fan		596
					152	
T. O. Deaumer	J. L. Dewese	Poca No. 3	4-6.	fan		597
T. O. Deaumer	C. R. Irving	Poca No. 3	4-8.	fan		598
					54	
T. O. Deaumer	C. R. Irving	Poca No. 3	4-8.	furnace		599
W. J. Pritchard	T. C. Dooley	Poca No. 3	4-6.	fan	150	600
J. C. Stras	B. H. English	Poca No. 3	4-5.	fan & furn	56	601
R. D. Patterson	J. S. Woodyard	Poca No. 3	4-4.	fan	64	602

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Open- ing.	Post Office Address.
<i>Mercer County—Con't.</i>						
603	Tenth	The Weyanoke Coal & C. Co.	1047	Elihu	drift	Glatto
604	Tenth	The Smokeless C. & C. Co.	1049	Smokeless	drift	Hiawatha
605	Tenth	Hiawatha Coal & C. Co.	1050	Hiawatha	drift	Hiawatha
606	Tenth	Spring Coal Mining Co.	1051	Spring	drift	Springton
607	Tenth	Wenonah Coal & Coke Co.	1052	Wenonah	drift	Dott
608	Tenth	T. D. Lee Coal Co.	1028a	T. D. Lee	drift	Bramwell
<i>McDowell County.</i>						
609	Tenth	Algoma Coal & Coke Co.	1002	Piney	drift	Algoma
610	Tenth	Algoma Coal & Coke Co.	1001	North Fork	drift	Algoma
611	Tenth	Elk River Coal & Coke Co.	1003-4	Elk Ridge	2 drifts	North Fork
612	Tenth	Gilliam Coal & Coke Co.	1005	Gilliam	drift	Gilliam
613	Tenth	Indian Ridge Coal & C. Co.	1007	Indian Ridge	drift	Worth
614	Tenth	Roanoke Coal & Coke Co.	1008	Roanoke	drift	Worth
615	Tenth	Arlington Coal & Coke Co.	1009	Arlington	drift	McDowell
616	Tenth	Greenbrier Coal & Coke Co.	1010	Greenbrier	drift	McDowell
617	Tenth	McDowell Coal & Coke Co.	1011	McDowell	drift	McDowell
618	Tenth	Ashland Coal & Coke Co.	1014	Ashland	drift	Ashland
619	Tenth	Ashland Coal & Coke Co.	1012	Monitor	2 drifts	Ashland
620	Tenth	Poca. Cons. Colls. Co., Inc.	1013	Cherokee	drift	Pocahontas, Va.
621	Tenth	Poca. Cons. Colls. Co., Inc.	1017	Lick Branch	drift	Pocahontas, Va.
622	Tenth	Poca. Cons. Colls. Co., Inc.	1018	Delta	drift	Pocahontas, Va.
623	Tenth	Poca. Cons. Colls. Co., Inc.	1019	Shamokin	drift	Pocahontas, Va.
624	Tenth	Poca. Cons. Colls. Co., Inc.	1020-1	Norfolk	2 drifts	Pocahontas, Va.
625	Tenth	Poca. Cons. Colls. Co., Inc.	1022	Angle	drift	Pocahontas, Va.
626	Tenth	Poca. Cons. Colls. Co., Inc.	1022a	West	drift	Pocahontas, Va.
627	Tenth	Zenith Coal & Coke Co.	1015	No. 1	drift	Crumpler
628	Tenth	Zenith Coal & Coke Co.	1016	No. 2	drift	Crumpler
629	Tenth	Elkhorn Coal & Coke Co.	1023	Elkhorn	drift	Mayberry
630	e Elev 'th	Mohawk Coal & Coke Co.	1101	Mohawk	drift	Mayberry
631	Elev 'th	N. Riv. & Poca. Cons. C. Co.	1102	Nos. 1 & 11	2 drifts	Berwind
632	Elev 'th	N. Riv. & Poca. Cons. C. Co.	1104	No. 2	drift	Berwind
633	Elev 'th	N. Riv. & Poca. Cons. C. Co.	1105	No. 3	drift	Berwind
634	Elev 'th	Dry Fork Min. & Invest. Co.	1106	War Creek	drift	War
635	Elev 'th	Hall Mining Co.	1108	No. 1	drift	Yukon
636	Elev 'th	Hall Mining Co.	1107	No. 2	drift	Yukon
637	Elev 'th	Pocahontas Domestic C. Co.	1188	Domestic	drift	War
638	Elev 'th	War Creek Coal Co.	1189	No. 1	drift	Yukon
639	Elev 'th	Dry Fork Colliery Co.	1109	Williams	drift	Yukon
640	Elev 'th	Reynolds Mining Co.	1191	Reynolds	drift	Lex
641	Elev 'th	Virginia-Pocahontas C. Co.	1112	No. 1	drift	Coalwood
642	Elev 'th	Virginia-Pocahontas C. Co.	1114	No. 11	drift	Coalwood
643	Elev 'th	Virginia-Pocahontas C. Co.	1113	No. 2 East	drift	Coalwood
644	Elev 'th	Virginia-Pocahontas C. Co.	1113	No. 2 West	drift	Coalwood
645	Elev 'th	Virginia-Pocahontas C. Co.	1114	No. 3	drift	Coalwood
646	Elev 'th	Virginia-Pocahontas C. Co.	1115	No. 4	drift	Coalwood
647	Elev 'th	Virginia-Pocahontas C. Co.	1116	No. 5	drift	Coalwood
648	Elev 'th	Vaughan Coal & Coke Co.	1118	Vaughan	drift	Roderfield
649	Elev 'th	Flanagan Coal Co.	1192	J. No. 1	drift	Roderfield
650	Elev 'th	Premier-Poca. Colls. Co.	1117	No. 1	drift	Flanagan
651	Elev 'th	Premier-Poca. Colls. Co.	1117a	No. 2	drift	Flanagan
652	Elev 'th	Premier-Poca. Colls. Co.	1117b	No. 3	drift	Flanagan
653	Elev 'th	Big Sandy Coal & Coke Co.	1119	Big Sandy	drift	Big Sandy
654	Elev 'th	Big Sandy Coal & Coke Co.	1120	Marytown	drift	Big Sandy
655	Elev 'th	Twin Branch Mining Co.	1123	Twin Branch	drift	Twin Branch
656	Elev 'th	Maher Coal & Coke Co.	1124	Maher No. 1	drift	Twin Branch
657	Elev 'th	Maher Coal & Coke Co.	1127	Maher No. 2	drift	Twin Branch
658	Elev 'th	J. B. B. Collieries Co.	1132	J. B. B. No. 1	drift	Twin Branch
659	Elev 'th	J. B. B. Collieries Co.	1125	J. B. B. No. 2	drift	Twin Branch
660	Elev 'th	J. B. B. Collieries Co.	1121	J. B. B. No. 3	drift	Twin Branch
661	Elev 'th	J. B. B. Collieries Co.	1126	J. B. B. No. 4	drift	Twin Branch
662	Elev 'th	J. B. B. Collieries Co.	1128	J. B. B. No. 5	drift	Twin Branch
663	Elev 'th	Superior-Pocahontas C. Co.	1128a	No. 1	drift	Hallsville
664	Elev 'th	Superior-Pocahontas C. Co.	1129	No. 2	drift	Hallsville

e Eleventh District—James G. Boyd, Inspector until November 15, 1908.

j Just being developed. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
R. D. Patterson.....	Albert Vines	Poca No. 3	4-4..	furnace	43	603
O. N. Mooman.....	J. W. Shrewsbury.....	Poca No. 3	4-0..	fan	40	604
O. N. Mooman.....	Wm. Nunn.....	Poca No. 3	5-8..	fan	85	605
M. J. Saunders.....	H. H. Honaker.....	Poca No. 3	4-4..	fan	131	606
R. Hewitt.....	Ed Lucas.....	Poca No. 3	5-0..	fan	62	607
T. D. Lee.....	.....	Poca No. 3	6-0..	natural	3	608
Wm. J. Beury.....	J. F. Logan	Poca No. 3	6-0..	fan	185	609
Wm. J. Beury.....	J. F. Logan	Poca No. 3	6-0..	fan		610
L. E. Tierney.....	H. F. Creakman.....	Poca No. 3	7-0..	fan	115	611
Morris Watts.....	John Yost.....	Poca No. 3	5-9..	fan	130	612
A. D. Rice.....	H. H. Taylor.....	Poca No. 3	5-0..	fan	124	613
Wm. V. Cummins, G. M.	W. L. Marshall.....	Poca No. 3	5-2..	fan	85	614
Morris Watts.....	Alfred Hall.....	Poca No. 3	5-9..	fan	115	615
Jairus Collins.....	T. B. White.....	Poca No. 3	6-0..	fan	110	616
H. W. Rawson.....	J. C. Lovern.....	Poca No. 3	5-4..	2 fans	175	617
T. J. Oniel.....	E. Sheets.....	Poca No. 3	4-8..	fan	217	618
T. J. Oniel.....	R. S. Whittington.....	Poca No. 3	4-8..	fan		619
J. E. Jones, G. M.....	Ellis Sheets.....	Poca No. 3	5-6..	fan	190	620
J. E. Jones, G. M.....	C. W. Atkinson.....	Poca No. 3	7-6..	fan	290	621
J. E. Jones, G. M.....	C. W. Atkinson.....	Poca No. 3	8-0..	fan	315	622
J. E. Jones, G. M.....	C. W. Atkinson.....	Poca No. 3	7-6..	fan	310	623
J. E. Jones, G. M.....	R. S. Whitehead.....	Poca No. 3	7-6..	fan	475	624
J. E. Jones, G. M.....	R. S. Whitehead.....	Poca No. 3	7-6..	fan		625
J. E. Jones, G. M.....	W. H. Walters.....	Poca No. 3	10-6..	fan	28	626
A. D. Rice.....	J. M. Watt.....	Poca No. 3	4-10..	fan	80	627
A. D. Rice.....	J. M. Watt.....	Poca No. 3	4-10..	fan		628
R. S. Ord.....	J. R. Little.....	Poca No. 3	8-0..	fan	183	629
W. F. Heatherman.....	K. Heatherman.....	Welch.....	5-10..	fan	52	630
G. S. Borden.....	C. H. Rhodes.....	Poca No. 3	4-6..	fan	140	631
G. S. Borden.....	Jos. Allsop.....	Poca No. 3	4-6..	fan	118	632
G. S. Borden.....	S. D. Cromer.....	Poca No. 3	4-6..	fan	101	633
Paris Chester.....	John Carter.....	War Creek	4-6..	furnace	20	634
H. M. Meyers.....	B. C. Cordle.....	War Creek	5-10..	furnace	46	635
H. M. Meyers.....	.....	.....	.....	.....	636	636
C. L. Perkins.....	C. L. Perkins.....	War Creek	4-3..	furnace	13	637
H. M. Myers.....	B. C. Cordle.....	War Creek	4-0..	furnace	12	638
W. L. Robinson.....	Wm. Powell.....	War Creek	6-4..	fan	26	639
Geo. Smith.....	Geo. Smith.....	Poca No. 6	3-6..	furnace	16	640
John Stewart.....	W. P. Femey.....	Welch.....	4-6..	} fan	55	641
John Stewart.....	W. P. Femey.....	Welch.....	4-6..			642
John Stewart.....	John Peel.....	Welch.....	4-6..	fan	36	643
John Stewart.....	John Peel.....	Welch.....	4-6..	fan		644
John Stewart.....	J. L. Vance.....	Welch.....	4-6..	fan	57	645
John Stewart.....	J. L. Vance.....	Welch.....	4-6..	fan		646
John Stewart.....	Jno. Clark.....	War Creek	4-0..	fan	50	647
R. M. Peck.....	R. H. Gully.....	Welch.....	4-0..	fan	25	648
T. J. Flanagan.....	M. J. Finley.....	Welch.....	5-4..	natural	649	649
J. C. Saunders.....	T. N. Dougherty.....	Welch.....	4-0..	} furnace	75	650
J. C. Saunders.....	T. N. Dougherty.....	Welch.....	4-0..			651
J. C. Saunders.....	T. N. Dougherty.....	Welch.....	4-0..	fan	652	652
Wm. McFarland.....	W. A. Lilly.....	Welch.....	3-6..	2 fans	111	653
Wm. McFarland.....	A. D. Short.....	Welch.....	3-5..	fan	138	654
D. M. Woody.....	C. P. Woody.....	Welch.....	4-0..	fan	70	655
D. M. Woody.....	J. B. Lacey.....	Welch.....	4-0..	fan	35	656
D. M. Woody.....	J. B. Lacey.....	Welch.....	4-0..	fan		657
D. M. Woody.....	Kerby Brogan.....	Welch.....	4-0..	fan	35	658
D. M. Woody.....	M. J. Brogan.....	Welch.....	4-0..	fan	70	659
D. M. Woody.....	Kerby Brogan.....	Welch.....	4-0..	fan	24	660
D. M. Woody.....	C. P. Woody.....	Welch.....	4-0..	fan	9	661
D. M. Woody.....	C. P. Woody.....	Welch.....	4-0..	fan	22	662
M. J. Riley.....	P. Driman.....	Welch.....	3-11..	fan	114	663
M. J. Riley.....	L. S. Gilley.....	Welch.....	3-2..	fan	67	664

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
McDowell County—Con't.						
665	Elev	Superior-Pocahontas C. Co	1130	Helena	2 drifts	Hallsville
666	Elev	Superior-Pocahontas C. Co	1134	Davy Crockett	drift	Hallsville
667	Elev	Superior-Pocahontas C. Co	1131	No. 4	drift	Hallsville
668	Elev	Superior-Pocahontas C. Co	1132	No. 5	drift	Hallsville
669	Elev	The Pando Coal Co.	1135	Pando No. 1	drift	Pando
670	Elev	The Pando Coal Co.	1136	Pando No. 2	drift	Pando
671	Elev	Atlas-Pocahontas Coal Co	1138	Antler No. 3	drift	Antler
672	Elev	Atlas-Pocahontas Coal Co	1137	aAntler No. 4	drift	Antler
673	Elev	Oregon Coal Co.	1139	Imo	drift	Hemphill
674	Elev	Oregon Coal Co.	1140	McClaren	drift	Hemphill
675	Elev	Slick Rock Coal Co.	1141	Slick Rock	drift	Welch
676	Elev	Jed Coal & Coke Co.	1142	Jed	shaft	Jed
677	Elev	United States Coal & C. Co	1143	No. 1	shaft	Gary
678	Elev	United States Coal & C. Co	1144	No. 2	drift	Gary
679	Elev	United States Coal & C. Co	1145	No. 3	drift	Gary
680	Elev	United States Coal & C. Co	1146	No. 4	drift	Gary
681	Elev	United States Coal & C. Co	1147	No. 5	drift	Gary
682	Elev	United States Coal & C. Co	1148	No. 6	drift	Gary
683	Elev	United States Coal & C. Co	1149	No. 7	drift	Gary
684	Elev	United States Coal & C. Co	1150	No. 8	2 drifts	Gary
685	Elev	United States Coal & C. Co	1151	No. 9	2 drifts	Gary
686	Elev	United States Coal & C. Co	1152	No. 10	drift	Gary
687	Elev	United States Coal & C. Co	1153	No. 11	2 drifts	Gary
688	Elev	United States Coal & C. Co	1154	No. 12	drift	Gary
689	Elev	Central Pocahontas C. Co.	1187	Anawalt	drift	Gary
690	Elev	Black Wolf Coal & Coke Co.	1155-6	No. 4	2 drifts	Dearing
691	Elev	Page Coal & Coke Co.	1157	No. 1	drift	Pageton
692	Elev	Page Coal & Coke Co.	1158	No. 2	drift	Pageton
693	Elev	Page Coal & Coke Co.	1159	No. 3	drift	Pageton
694	Elev	Welch Coal & Coke Co.	1160	Welch	drift	Welch
695	Elev	Hemphill Colliery Co.	1161	Hemphill	drift	Welch
696	Elev	Middle States Coal & C. Co	1162	No. 11	shaft	Olmsted
697	Elev	Dixon-Pocahontas Fuel Co	1163	North	shaft	Olmsted
698	Elev	Dixon-Pocahontas Fuel Co	1164	South	shaft	Olmsted
699	Elev	Cirrus Coal & Coke Co.	1165	No. 1	slope	Big Four
700	Elev	Cirrus Coal & Coke Co.	1165a	J No. 2	slope	Big Four
701	Elev	Virginia Fuel Co.	1166	Virginia	slope	Big Four
702	Elev	The King Coal Co.	1167	King	slope	Vivian
703	Elev	The Tidewater Coal & C. Co	1168	Tidewater	drift	Vivian
704	Elev	Bottom Creek Coal & C. Co	1169	Bottom Creek	drift	Vivian
705	Elev	Peerless Coal & Coke Co.	1170	Peerless	drift	Vivian
706	Elev	The Empire Coal & C. Co.	1171	Empire	drift	Landgraff
707	Elev	Shawnee Coal & Coke Co.	1172	Shawnee	drift	Eckman
708	Elev	Eureka Coal & Coke Co.	1173	Eureka	drift	Eckman
709	Elev	Pulaski Iron Co.	1174	Pulaski No. 1	drift	Eckman
710	Elev	Pulaski Iron Co.	1175	Pulaski No. 2	drift	Eckman
711	Elev	Keystone Coal & Coke Co.	1176	No. 1	drift	Keystone
712	Elev	Keystone Coal & Coke Co.	1177	No. 2	drift	Keystone
713	Elev	Lynchburg Coal & Coke Co	1178	Lynchburg	drift	Kyle
714	Elev	Powhatan Coal & Coke Co	1179	Powhatan	drift	Powhatan
715	Elev	Upland Coal & Coke Co.	1180	No. 1	drift	Elkhorn
716	Elev	Houston Coal & Coke Co.	1181	No. 1	drift	Elkhorn
717	Elev	Houston Coal & Coke Co.	1182	No. 2	drift	Elkhorn
718	Elev	Crozer Coal & Coke Co.	1183	No. 1	drift	Elkhorn
719	Elev	Crozer Coal & Coke Co.	1184	No. 2	drift	Elkhorn
720	Elev	Turkey Gap Coal & Coke Co	1185	Turkey Gap	drift	Ennis
721	Elev	Flat Top Coal & M'f'g Co.	1110	Flat Top	drift	English
722	Elev	Hurricane Branch Coal Co.	1111	Huffer	drift	Lex
723	Elev	Henrietta Coal & Coke Co.	1191	Henrietta	drift	English
Wyoming County.						
724	Elev	n William Tolliver	1186	n Rich Knob	drift	Maben

n No Report. Claims to not be subject to Mine Law.

f Just being opened. *a* Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
M. J. Riley	John Pirkey	Welch	3-0	fan	34	665
M. J. Riley	L. S. Gilley	Welch	3-0	fan		666
M. J. Riley	P. L. Boyd	Welch	3-8	fan	14	667
M. J. Riley	Joe Pirrung	Welch	2-11	fan	7	668
Geo. S. Green	Sidney Yost	Davy	3-0	3 fans	74	669
Geo. S. Green	Sidney Yost	Welch	4-0	fan		670
J. A. Henchey	H. Sheppard	Welch	3-0	fan	52	671
		Welch	3-0	natural		672
C. W. Peters	John Kirby	Welch	4-8	fan	113	673
C. W. Peters	John Kirby	Welch	4-8	fan		674
J. E. Jones	Jos. McBrayer	Welch	4-0	fan	30	675
Wm. Leckie	J. R. Davis	Poca No. 3	5-6	fan	177	676
F. E. King	J. M. Langton	Poca No. 3	5-9	fan	243	677
		Poca No. 4	6-0			678
E. M. Esser	M. Connelly	Poca No. 4	6-0	fan	394	679
W. A. Wilson	M. P. Brady	Poca No. 4	4-10	fan	180	680
J. H. Petty	Lees Sexton	Poca No. 3	8-0	fan	148	681
J. H. Petty	Morris Wiley	Poca No. 3	7-0	fan	72	682
John Kerns	Jno. Maurill	Poca No. 4	6-6	fan	238	683
F. A. Kearns	A. H. Hahn	Poca No. 4	7-0	fan	169	684
G. N. Harris	John Gates	Poca No. 4	6-0	2 fans	100	685
S. H. Graham	M. M. McParland	Poca No. 4	7-6	2 fans	114	686
R. W. Mercer	J. V. Rhodes	Poca No. 3	4-6	fan	98	687
J. H. Dunn	J. L. Mullen and Geo. Hawthorn	Poca No. 3	5-6	fan	151	688
		Poca No. 4	5-0			689
H. T. Graham	J. M. Bryan	Poca No. 3	8-3	fan	105	690
G. T. Farrow	G. T. Farrow	Poca No. 3	8-0	natural		691
E. C. Berkeley	Arthur Sturm	Poca No. 4	6-0	fan	63	692
J. R. Bailey	J. A. Gallimore	Poca No. 3	7-0	fan	190	693
J. R. Bailey	H. T. Hanna	Poca No. 3	7-0	fan		694
J. A. Bailey	H. T. Hanna	Poca No. 3	7-0	fan		695
F. J. Baxter	James McBrayer	Welch	4-6	fan	60	696
F. J. Baxter	Wm. Spicer	Welch	4-6	fan	53	697
H. Olmsted	D. E. Evans	Poca No. 4	5-0	fan	127	698
Carol Robinson	Dan Parker	Poca No. 4	4-6	fan	55	699
Carol Robinson	M. Lilly	Poca No. 3	4-6	fan	59	700
T. A. Shewey	E. J. Flanagan	Poca No. 3	5-6	fan	57	701
T. A. Shewey		Poca No. 3	5-6			702
J. A. Staton	John Flanagan	Poca No. 4	4-6	fan	20	703
W. C. Easley	Sam'l Campbell	Poca No. 3	6-0	fan	140	704
W. C. Easley	Sam'l Campbell	Poca No. 3	6-0	3 fans	140	705
G. S. Patterson	W. J. Bell	Poca No. 3	5-10	fan	189	706
R. Y. Luther	J. O. Smith	Poca No. 3	6-6	fan	146	707
Wm. D. Ord	T. R. Barrett	Poca No. 3	5-10	fan	237	708
Morris Watts	M. A. Sexton	Poca No. 3	6-9	fan	120	709
L. E. Tierney	J. Whitehead	Poca No. 3	7-0	fan	140	710
P. Johnson	J. M. Shank	Poca No. 3	6-2	fan	240	711
P. Johnson	J. M. Shank	Poca No. 3	6-2	fan		712
J. K. F. Steele	G. B. Smith	Poca No. 3	6-3	fan	175	713
J. K. F. Steele	G. B. Smith	Poca No. 3	6-3	fan		714
L. E. Tierney	Thos. Fitzsimmons	Poca No. 3	7-0	fan	170	715
L. E. Tierney	J. F. Lynch	Poca No. 3	7-0	2 fans	140	716
Jno. J. Lincoln	J. A. Grantham	Poca No. 3	7-8	fan	175	717
B. Lewis	C. Kershaw	Poca No. 3	8-0	fan	199	718
B. Lewis	Geo. Guy	Poca No. 3	8-0			719
E. H. Evans	J. McCrickard	Poca No. 3	8-0	fan	262	720
E. H. Evans	J. McCrickard	Poca No. 3	8-0			721
E. J. McQuail	J. P. Johnson	Poca No. 3	8-0	2 fans	265	722
J. G. Thomas	E. L. Dale	War Creek	4-6	fan	24	723
J. E. Hufford	J. J. Reynolds	Poca No. 4	3-0	furnace	12	724
C. K. Beach	M. A. Hurley	Poca No. 4	3-0	furnace	18	725
		Poca No. 4	2-6	natural		726

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.

No.	District.	Name of Company.	Series, No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Lincoln County.</i>						
725	oTwelfth	Branchland Coal Co.	1201	Branchland	drift	Branchland
726	Twelfth	Kenova Coal Mining Co.	1275	Kenova	drift	Branchland
727	Twelfth	Kenova Coal Mining Co.	1276	Coaling Station.	drift	Branchland
<i>Logan County.</i>						
728	Twelfth	Prudential Coal & Min. Co.	1205	* Prudential	drift	Big Creek
729	Twelfth	Stone Branch Coal Co.	1206	No. 1	drift	Stone Branch
730	Twelfth	Stone Branch Coal Co.	1206a	No. 2	drift	Stone Branch
731	Twelfth	Stone Branch Coal Co.	1206b	No. 3	drift	Stone Branch
732	Twelfth	Stone Branch Coal Co.	1206c	No. 4	drift	Stone Branch
733	Twelfth	Stone Branch Coal Co.	1206d	No. 5	shaft	Stone Branch
734	Twelfth	Stone Branch Coal Co.	1206e	No. 6	drift	Stone Branch
735	Twelfth	Stone Branch Coal Co.	1206f	No. 7	drift	Stone Branch
736	Twelfth	Stone Branch Coal Co.	1206g	No. 8	drift	Stone Branch
737	Twelfth	Big Creek Coal Co.	1207	Big Creek	drift	Kitchen
738	Twelfth	E. R. Johnson C. Min'g Co.	1208	Johnson	drift	Logan
739	Twelfth	Draper Coal & Coke Co.	1209	Draper	drift	Logan
740	Twelfth	H. T. Wilson Coal Co.	1210	Wilson	drift	Logan
741	Twelfth	Fort Branch Coal Co.	1211	Fort Branch	drift	Fort Branch
742	Twelfth	Price Coal Co.	1212	Price	drift	Ethel
743	Twelfth	Rex Coal Co.	1213	Rex	drift	Ethel
744	Twelfth	The Logan Coal Co.	1214	Logan No. 1	drift	Ethel
745	Twelfth	The Ethel Coal Co.	1215	Ethel	drift	Ethel
746	Twelfth	The Monitor Coal Co.	1216	Monitor	drift	Logan
747	Twelfth	The Monitor Coal Co.	1217	Beechwood	drift	Logan
748	Twelfth	The Yuma Coal & Coke Co.	1218	Yuma	drift	Logan
749	Twelfth	The Gay Coal & Coke Co.	1219	Gay	drift	Logan
750	Twelfth	Cora Coal & Coke Co.	1220	Cora	drift	Logan
751	Twelfth	United States Coal & Oil Co.	1221	Island Creek No. 1	drift	Holden
752	Twelfth	United States Coal & Oil Co.	1222	Island Creek No. 2	drift	Holden
753	Twelfth	United States Coal & Oil Co.	1223	Island Creek No. 3	drift	Holden
754	Twelfth	United States Coal & Oil Co.	1224	Island Creek No. 4	drift	Holden
755	Twelfth	United States Coal & Oil Co.	1225	Island Creek No. 5	drift	Holden
756	Twelfth	United States Coal & Oil Co.	1226	Island Creek No. 6	drift	Holden
757						
<i>Mingo County.</i>						
758	Twelfth	Pearl Coal Mining Co.	1230	Haggerty	drift	Dingess
759	Twelfth	Ajax Coal Co.	1232	Mattie May	drift	Eugene
760	Twelfth	g Naugatuck Coal Co.	1233	Blockton	drift	Blockton
761	Twelfth	Warfield Coal Co.	1234	Warfield	shaft	Kermit
762	Twelfth	w Lemoin Coal Co.	1238	Lemoin	drift	Hatfield
763	Twelfth	Chattaroy Colliery Co.	1239	Chattaroy	5 drifts	Chattaroy
764	Twelfth	The Buffalo Collieries Co.	1240	Buffalo	drift	Chattaroy
765	Twelfth	Lingohocken Coal Co.	1241	No. 5	drift	Chattaroy
766	Twelfth	Lingohocken Coal Co.	1241a	No. 6	drift	Chattaroy
767	Twelfth	Lingohocken Coal Co.	1241b	No. 7	drift	Chattaroy
768	Twelfth	Lingohocken Coal Co.	1241c	No. 8	drift	Chattaroy
769	Twelfth	Howard Colliery Co.	1242	Howard	drift	Chattaroy
770	Twelfth	Winifrede Consol. Coal Co.	1243	Sugar Tree	5 drifts	Goodman
771	Twelfth	Williamson Coal & Coke Co.	1246	Williamson No. 3	drift	Williamson
772	Twelfth	W. T. Poole Coal Co.	1245	Williamson No. 1	drift	Williamson
773	Twelfth	Rawl Coal & Coke Co.	1247	No. 1	drift	Rowl
774	Twelfth	Rawl Coal & Coke Co.	1248	No. 2	drift	Rowl
775	Twelfth	White Star Mining Co.	1250	Commercial	drift	Merrimac
776	Twelfth	White Star Mining Co.	1249	Coaling Station	drift	Merrimac
777	Twelfth	Belvedere Gas Coal Co.	1251	i Alma	drift	Sprigg
778	Twelfth	Marvin Coal Co.	1252	Marvin	drift	Matewan
779	Twelfth	Red Jacket Cons. C. & C. Co.	1253	Rutherford	drift	Red Jacket
780	Twelfth	Red Jacket Cons. C. & C. Co.	1254	Logan	drift	Red Jacket
781	Twelfth	Red Jacket Cons. C. & C. Co.	1255	Red Jacket	drift	Red Jacket
782	Twelfth	Red Jacket Cons. C. & C. Co.	1259	a Maritime	drift	Thacker
783	Twelfth	Red Jacket Cons. C. & C. Co.	1262	Lick Fork	drift	Red Jacket
784	Twelfth	Red Jacket Cons. C. & C. Co.	1264	Grapevine	drift	Red Jacket
785	Twelfth	Mate Creek Coal Co.	1256	i No. 1	drift	Matewan

o Twelfth District—Patrick A. Grady, Inspector. + Prospect openings.

w Formerly Hatfield Colliery Co. a Abandoned. i Idle all year.

g Formerly The Walnut Hill C. & M. Co. * Idle since February 1, 1908.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. C. Fennimore.....	Lon Reeves.....	Kanawha.....	6-0.	furnace.....	64	725
G. A. Blowers.....	G. A. Blowers.....	Up. Fr't.	5-6.	furnace.....	15	726
G. A. Blowers.....	G. A. Blowers.....	Up. Fr't.	5-6.		5	727
		Camp. Crk	4-6.	furnace.....		728
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede	4-4.	} fan and furnace	54	729
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				730
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				731
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				732
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				733
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				734
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				735
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede				736
W. T. Oliver.....	John Erly.....	Winifrede	3-11	furnace.....	37	737
R. O. Heyser.....	Jas. Brown.....	Winifrede	4-0	fan.....	41	738
R. O. Heyser.....	F. R. Kitchen.....	Winifrede	4-0	furnace.....	66	739
R. O. Heyser.....	B. B. Wilson.....	Winifrede	4-0	fan.....	65	740
J. E. Cooper.....	J. E. Bolan.....	Winifrede	4-6	fan.....	24	741
C. E. Price.....	J. R. Price.....	Winifrede	5-0	fan.....	40	742
J. P. Kinzer.....	G. H. Bolen.....	Winifrede	5-8	furnace.....	25	743
J. P. Small.....	W. L. McGinnis.....	Winifrede	5-0	furnace.....	62	744
C. A. Devenny, Mgr.....	M. Hall.....	Winifrede	5-8	furnace.....	53	745
J. E. Barlow.....	E. M. Stephens.....	Winifrede	6-6	fan.....	105	746
J. E. Barlow.....	R. B. Barlow.....	Winifrede	6-6	fan.....	57	747
C. K. Robertson.....	W. L. Stevens.....	Winifrede	6-4	fan.....	45	748
H. S. Gay.....	F. Killerman.....	Winifrede	5-6	fan.....	50	749
C. W. Jones.....	E. B. Truax.....	Winifrede	6-0	fan.....	43	750
Paul Hardy.....	F. A. Sharps.....	No. 2 Gas	6-6	fan.....	261	751
Paul Hardy.....		No. 2 Gas	6-6	2 fans.....	268	752
Paul Hardy.....	H. Poirier.....	No. 2 Gas	6-6	fan.....	91	753
Paul Hardy.....	H. Poirier.....	No. 2 Gas	6-6	fan.....	81	754
Paul Hardy.....	W. B. Sims.....	No. 2 Gas	6-6	} fan.....	108	755
Paul Hardy.....	W. B. Sims.....	No. 2 Gas	6-6			756
						757
Thos. Thompson.....	J. W. Murphy.....	Lo. Kit'g	3-4	fan.....	27	758
		Winifrede	5-0	furnace.....		759
S. W. Perry.....	L. J. Blankenship.....	Coalburg	4-10	furnace.....	67	760
P. D. Pinson.....	B. D. Pinson.....	Lo. Kit'g	4-6	furnace.....	31	761
J. W. Malsby.....	T. F. Smith.....	Winifrede	4-6	furnace.....	30	762
O. E. Taber.....	A. M. Taber.....	Winifrede	5-6	furnace.....	65	763
S. V. Preston.....	Geo. Wilburn.....	Winifrede	4-4	fan.....	71	764
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede	5-0	} fan.....	66	765
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede	5-0			766
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede	5-0			767
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede	5-0			768
W. S. Estler.....	R. G. Claytor.....	Winifrede	6-0	fan.....	85	769
W. A. Lindsey.....	J. T. Stevens.....	Winifrede	6-6	furnace.....	40	770
L. B. Ramsey.....	S. C. Fisher.....	Winifrede	6-0	furnace.....	47	771
W. T. Poole.....	B. Price.....	M. Kit'g	4-4	furnace.....	20	772
R. N. Taylor.....	Lyss. Webb.....	Lo. Kit'g	4-4	furnace.....	20	773
R. N. Taylor.....	Lyss. Webb.....	Lo. Kit'g	4-4	fan.....	25	774
Geo. W. Welch.....	Geo. W. Monnon.....	Lo. Kit'g	3-3	fan.....	25	775
Geo. W. Welch.....	Geo. W. Monnon.....	Lo. Kit'g	3-3	furnace.....		776
W. H. Adams.....		Br'wst'n	3-6	furnace.....		777
J. A. Williams.....	W. H. Artis.....	Br'wst'n	3-4	furnace.....	60	778
W. A. Wilson.....	Wm. Quisenbury.....	Thacker	4-6	fan.....	60	779
W. A. Wilson.....	C. Scaggs.....	Thacker	4-6	fan.....	11	780
W. A. Wilson.....	James Booth.....	Thacker	4-6	fan.....	106	781
		Thacker	4-6	fan.....		782
J. H. Glass.....	W. Stevens.....	Thacker	6-6	furnace.....	75	783
J. H. Glass.....	Wm. Musser.....	Thacker	7-3	furnace.....	68	784
		M. Kit'g	4-2	furnace.....		785

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Mingo County—Con't.</i>						
786	Twelfth	Mate Creek Coal Co	1257	i No. 2	drift ..	Matewan
787	Twelfth	Lynn Coal & Coke Co	1258	Lynn	drift ..	Thacker
788	Twelfth	Thacker Coal & Coke Co	1260	No. 2	drift ..	Thacker Mines ..
789	Twelfth	Thacker Coal & Coke Co	1261	No. 3	drift ..	Thacker Mines ..
790	Twelfth	Thacker Fuel Co	1263	No. 10	drift ..	New Thacker
791	Twelfth	Majestic Collieries Co.	1265	i Cedar	drift ..	Cedar
792	Twelfth	Glen Alum Coal Co	1266	No. 1	drift ..	Glen Alum
793	Twelfth	Glen Alum Coal Co	1267	No. 2	drift ..	Glen Alum
794	Twelfth	War Eagle Coal Co	1271	i War Eagle	drift ..	War Eagle
795	Twelfth	War Eagle Coal Co	1269	Pappoose	drift ..	War Eagle
796	Twelfth	War Eagle Coal Co	1270	Mephisto	drift ..	War Eagle
797	Twelfth	War Eagle Coal Co	1268	i Star	drift ..	War Eagle
798	Twelfth	Margaret Mining Co	1272-3	Margaret	drift ..	War Eagle
799	Twelfth	The Mingo Block Coal Co	1274	*Nos. 1, 2, 3, 4 & 5 ..	5 drifts	Williamson
<i>Wayne County.</i>						
800	Twelfth	East Lynn Coal Co	1227-9	Nos. 1, 2 & 3	3 drifts	East Lynn

* Prospect openings. i Idle all year.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
		Thacker	4-0	furnace		786
James Collins	S. T. Lambert	Thacker	4-6	furnace	32	787
James Collins	Chas. Sigman	Thacker	6-0	fan	42	788
James Collins	Peter Kerr	Thacker	6-0	fan	152	789
James Collins	H. Chapple	Thacker	6-0	furnace	77	790
A. B. Rawn		Lo. Kit'g	2-8	furnace		791
E. C. Lambert	J. H. Gent	Thacker	5-0	fan		792
E. C. Lambert	F. McClusky	Thacker	5-0	fan	204	793
		Thacker	6-0	fan		794
Geo. W. Coffey	J. K. Coffey	M. Kit'g	6-0	furnace	78	795
Geo. W. Coffey	Jno. Earnest	M. Kit'g	6-0	furnace	95	796
		Lo. Kit'g	5-4	fan		797
S. T. Lambert	H. H. Kelley	Thacker	5-6	fan	58	798
		Thacker	8-6			799
		No. 2 Gas	4-0	natural		
Okey Layo	Okey Layo	Winifrede	3-6	2 furnaces	57	800

ACCIDENTS.

TABLE SHOWING THE FATAL AND NON-FATAL ACCIDENTS IN THE STATE, BY COUNTIES, AND THEIR CAUSES, 1909.

(F. Means Fatal; N. F. Means Non-Fatal.)

COUNTIES.	Explosion of Fuel.		Mine Caves.		Fall of Stone.		Fall of Coal.		Premature Ex- plosion.		Fall of Roof.		Animals.		Tiptoe.		Fall Down Shaft.		Brown-Out Shot.		Electricity.		Explosion of Gas.		Railroad Cars.		Lorry.		Monitor.	
	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.
Brooke																														
Hancock																														
Marion																														
Marshall																														
Harrison																														
Cass																														
Cass																														
Barbour																														
Monongalia																														
Preston																														
Taylor																														
Grant																														
Mineral																														
Randolph																														
Tucker																														
Braxton																														
Mason																														
Putnam																														
Fayette																														
Kanawha																														
Nicholas																														
Calhoun																														
Morgan																														
Mercer																														
McDowell																														
Logan																														
Mingo																														
Totals	116	341	280	105	330	271	141	925	153	36	10	4	17	1	6	2	2	1	7	12	6	1	10	2	2	2	2	2	2	2

TABLE SHOWING THE FATAL AND NON-FATAL ACCIDENTS IN THE STATE, BY COUNTIES, AND THEIR CAUSES, 1909.—Continued.

COUNTIES.	Locomotive.		Mine Props.		Mine Cages.		Flying Coal.		Coke Oven.		Blown Through Shot.		Mining Machines.		Mine Pump.		Explosion of Powder.		Explosion of Smoke.		Explosion of Dynamite Caps.		Sealed by Steam.		Miscellaneous (Inside).		Miscellaneous (Outside).		Flying Steel.		Totals.		Sum Total.
	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.	N. F.	F.			
Brooke.....																																	
Hancock.....																																	
Marion.....																																	
Marshall.....																																	
Harrison.....																																	
Upshur.....																																	
Barbour.....																																	
Monongalia.....																																	
Preston.....																																	
Taylor.....																																	
Grant.....																																	
Mineral.....																																	
Randolph.....																																	
Tucker.....																																	
Braxton.....																																	
Mason.....																																	
Putnam.....																																	
Fayette.....																																	
Kanawha.....																																	
Nicholas.....																																	
Raleigh.....																																	
Mercer.....																																	
McDowell.....																																	
Logan.....																																	
Mingo.....																																	
Totals.....	5	6	3	2	15	1	2	15	1	2	9	1	3	328	524	2	334	1,032	1,365														

COMPARATIVE STATEMENT OF THE NUMBER OF MEN EMPLOYED, MEN KILLED, AND THE PRODUCTION
OF COAL FROM 1883 TO 1909. (COMMERCIAL MINES.)

FOR THE YEAR ENDING													
	Number of Inside Employees.	Number of Out- side Employees.	Total Employees, (excluding Coke Men.)	Killed by Falls of coal, slate and roof.	Killed by Cars.	Killed by Explo- sions.	Killed by Other Causes.	Total Killed.	Total tons of coal mined (tons of 2,240 lbs.)	Tons mined for each inside em- ployee.	Tons mined for each person kill- ed inside.	No. of persons killed inside for every 1,000 in- side employees.	No. inside em- ployees for every person killed in- side.
December 31, 1883.....	5,343	1,051	6,394	17	3			20	2,805,365	525	147,661	3.55	281
December 31, 1884.....	4,627	1,724	6,351	16	4	3		23	2,901,042	627	130,404	3.64	274
December 31, 1885.....	5,486	1,806	7,292	16	4	30	3	48	3,008,001	548	73,024	7.23	138
December 31, 1886.....	6,081	1,181	7,262	27	2			31	3,213,003	528	187,394	4.26	234
January 8, 1887, to June 30, 1888.....	7,293	1,187	8,480	27	2			31	3,800,223	700	415,168	1.41	706
June 30, 1880.....	9,173	1,242	10,415	9				13	4,566,839	588	255,108	2.61	382
June 30, 1881.....	7,764	2,324	10,088	21	2	2	2	27	5,043,946	615	225,168	2.61	382
June 30, 1882.....	10,434	2,380	12,814	27	4			31	7,251,430	600	251,084	2.78	350
June 30, 1883.....	11,776	2,118	13,894	27	6			36	7,777,570	660	222,216	2.90	336
June 30, 1884.....	14,204	1,686	15,890	54	6			60	9,758,054	686	145,042	4.71	212
June 30, 1885.....	15,682	1,902	17,584	49	6			55	9,428,065	601	171,419	3.50	285
June 30, 1886.....	16,692	1,888	18,580	51	12	12	8	83	9,874,099	591	194,988	4.73	211
June 30, 1887.....	20,257	1,814	22,071	48	7	1		63	11,957,468	589	205,815	3.51	284
June 30, 1887.....	17,080	2,047	19,126	47	12	2	6	67	11,571,900	678	192,865	3.50	284
June 30, 1888.....	18,502	2,148	20,650	67	12	2	8	89	14,154,865	761	186,248	4.08	244
June 30, 1889.....	19,634	2,461	22,095	64	13	4		81	16,100,150	820	203,799	4.02	244
June 30, 1890.....	21,820	2,815	24,635	61	15	57	8	141	18,736,911	858	140,879	6.09	164
June 30, 1900.....	25,693	3,467	29,160	76	20	29	5	130	20,115,901	782	166,247	4.70	212
June 30, 1902.....	27,720	4,023	31,743	79	23	7	11	120	23,179,083	836	210,718	3.96	252
June 30, 1903.....	30,430	5,151	35,581	93	19	32	12	150	27,733,098	743	154,651	4.82	207
June 30, 1904.....	36,316	5,065	41,381	95	23	12	10	140	26,814,715	738	218,006	3.38	295
June 30, 1905.....	39,903	5,875	45,778	105	28	39	22	194	31,323,029	785	177,972	4.41	227
June 30, 1906.....	40,865	6,531	47,396	99	26	114	20	268	37,225,474	910	148,894	6.11	163
June 30, 1907.....	44,147	7,399	51,546	139	38	139	20	356	38,840,311	903	123,026	7.34	136
June 30, 1908.....	48,958	7,555	56,513	158	41	382	44	625	39,187,010	801	62,689	12.24	189
June 30, 1909.....	50,597	11,622	62,219	137	41	124	62	364	41,513,766	821	114,048	6.72	149
Totals.....	556,592	88,589	645,091	1,568	363	1,032	285	3,258	426,520,008	766	217,723	3.52	284

*Accidents for Second District only. *No report for First District.

FATAL ACCIDENTS, BY CAUSES, IN WEST VIRGINIA, 1883 TO 1909, INCLUSIVE.

CAUSES.	Year Ending Dec. 31st.				Year Ending June 30th.																					Totals.	Per Centage.	
	1883	1884*	1885	1886	Jan. 1st, 1887, to June 30, 1888.																							
					1887	1888	1889	1890†	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907			1908	1909
Fall of roof, coal, etc.	17	.....	16	4	27	9	21	22	27	54	49	51	48	47	67	64	61	76	79	96	95	105	99	139	158	144	1,575	48.49
Cars	3	.....	4	2	2	.....	2	4	6	8	6	12	8	7	12	13	15	20	23	19	23	28	26	38	40	41	362	11.15
Explosions	.....	.....	3	38	2	.....	2	2	2	5	.....	12	1	2	2	4	5	20	7	32	12	39	114	139	377	129	1,032	31.77
Other	.....	.....	.....	3	2	.....	2	5	1	5	4	8	6	6	6	8	8	5	11	12	10	22	29	50	50	50	273	8.59
Totals	20	.....	23	48	31	13	27	36	36	72	59	83	65	62	87	89	141	130	120	159	140	194	268	356	625	364	3,248	100.00

* No report.

+ No report for First Mining District.

FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1883 TO 1892,
INCLUSIVE.

Inside.

CAUSES.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	Totals.	Percent- age.
Falls of coal, slate and roof	17	2	16	4	27	9	21	22	27	143	67.14	
Mine cars .....	..	..	1	1	1	1	1	12	5	14	6.57
Explosions of gas .....	..	..	3	39	..	..	..	..	..	47	22.07
Explosions of powder, dust and blasts .....	..	..	..	..	..	..	2	4	1	4	1.87
Locomotives	no report	2	2
Miscellaneous .....	..	..	..	..	..	..	..	..	1	5	2.35
Totals	19	20	44	31	11	24	29	35	213	100.0		

Outside.

CAUSES.												
	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	Totals.	Percent- age.
Cars	1	..	3	1	1	1	1	2	1	9	42.86	
Locomotives .....	..	no report	..	..	..	..	1	2	5	12	9.52
Miscellaneous .....	..	..	..	2	..	1	2	5	..	10	47.62
Totals	1	..	3	4	2	3	7	11	121	100.00		

* The accidents are for the 18 months from January 1st, 1887 to June 30, 1888.

† Accidents reported for 2d District only.

FATAL ACCIDENTS, INSIDE AND OUTSIDE, 1893 TO 1909, IN-
CLUSIVE.

Inside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Totals.	Percent- age.
Falls of coal, roof and slate	54	49	51	48	47	67	64	61	76	79	596	71.12
Mine cars	5	4	9	4	6	6	7	11	11	13	76	9.07
Explosions of gas .....	..	..	..	..	1	1	..	50	10	..	61	7.28
Explosions of powder, dust and shots	5	15	1	1	2	4	..	6	19	7	60	7.16
Mules .....	..	..	..	..	..	..	..	..	1	..	1	.24
Mine machines	1	1	..	..	..	..	..	..	1	..	1	.24
Motors .....	..	..	..	..	2	1	..	1	..	..	1	.12
Locomotives .....	..	1	..	..	2	1	..	2	1	..	7	.84
Miscellaneous	12	2	2	5	3	4	..	2	12	11	33	3.93
Totals	67	55	79	58	60	76	79	133	121	110	838	100.00

Outside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Totals.	Percent- age.
Cars	5	2	3	5	2	9	6	7	9	10	58	82.86
Machinery .....	..	..	..	..	..	1	1	..	..	..	2	2.86
Boiler Explosions .....	..	..	1	..	..	..	..	1	..	..	1	1.42
Locomotives .....	..	12	..	12	..	1	2	..	..	..	17	2.86
Miscellaneous .....	..	..	..	..	..	..	..	..	..	..	..	10.00
Totals	5	4	4	7	2	11	10	8	9	10	70	100.00

FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1903 TO 1909, INCLUSIVE.

Inside.

CAUSES.	1903	1904	1905	1906	1907	1908	1909	Totals.	Percent- age.
Falls of coal, roof and slate	96	95	105	99	139	155	144	833	42.52
Mine cars	12	12	18	16	20	28	31	137	6.90
Explosions of gas	24	3	1	4	20	2	3	66	3.37
Explosions of gas and dust .....	...	...	...	23	101	...	...	124	6.33
Explosions of dust, powder and shots	8	9	38	86	17	375	120	653	33.33
Animals	1	...	1	1	...	...	3	5	.41
Mine machines	1	...	1	1	...	22	...	25	1.25
Motors .....	...	...	3	5	4	8	14	34	1.74
Locomotives	1	1	...	1	1	...	...	4	.21
Miscellaneous	4	3	9	14	13	27	25	95	4.85
Totals	147	123	176	250	324	500	340	1,959	100.00

Outside.

CAUSES.	1903	1904	1905	1906	1907	1908	1909	Totals.	Percent- age.
Cars	7	11	10	10	18	12	12	80	54.43
Machinery .....	...	1	...	1	...	2	1	5	3.40
Locomotives	2	1	...	...	1	1	...	5	3.40
Miscellaneous	3	4	8	7	13	11	11	57	38.77
Totals	12	17	18	18	32	26	24	147	100.00

TABLE SHOWING THE NUMBER OF PERSONS KILLED INSIDE, PER 1,000 INSIDE EMPLOYEES IN COAL MINES IN THE STATES OF PENNSYLVANIA, ILLINOIS, OHIO AND WEST VIRGINIA FOR THE YEAR 1908.

STATE.	Total Number of Inside Employees.	Total Number of Inside Fatal Accidents.	Number of Lives Lost per 1,000 Inside Employees.
Pennsylvania Anthracite	124,233	506	4.79
Pennsylvania Bituminous	152,535	550	3.61
Illinois	64,424	170	2.64
Ohio	50,267	112	2.23
West Virginia	48,938	509	12.24

Year 1909.

WEST VIRGINIA.	50,567	340	6.72
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LIVES LOST INSIDE. NO. OF INSIDE EMPLOYEES AND TONNAGE
MINED FOR EACH LIFE LOST INSIDE—1909.

COUNTY.	No. of Lives Lost Inside the Mine.	Lives Lost Inside of Mine, per 1,000 Employees (Inside).	Tons of Coal Pro- duced per each Life Lost Inside of Mine.	Tons of Coal Pro- duced per each Inside Employee.	Total Tons of Coal Produced.	Total Inside Em- ployees.
Brooke.....	1	1.31	224,823	586	449,647	765
Hancock.....				482	46,756	97
Marion.....	20	6.14	186,688	1,147	3,733,765	3,255
Marshall.....	1	2.95	233,848	690	233,848	339
Ohio.....				600	158,327	264
Harrison.....	13	3.96	231,205	916	3,005,689	3,282
Lewis.....				276	13,780	50
Upshur.....	2	19.41	20,295	588	60,589	103
Barbour.....	1	1.34	735,033	987	735,033	745
Monongalia.....				641	235,816	368
Preston.....	3	2.51	218,111	548	654,333	1,194
Taylor.....				843	437,633	519
Grant.....				833	177,406	213
Mineral.....	5	6.48	149,131	966	745,658	772
Randolph.....	1	2.26	463,206	1,048	463,206	442
Tucker.....	3	2.72	335,291	914	1,005,873	1,100
Braxton.....				1,022	93,024	91
Gilmer.....				527	14,740	28
Mason.....	1	4.22	106,802	451	106,802	237
Putnam.....	3	3.75	126,140	474	378,420	799
Clay.....				283	25,797	91
Fayette.....	50	4.58	153,823	696	7,597,747	10,909
Kanawha.....	16	2.68	259,860	693	4,136,213	5,967
Boone.....				172	3,451	29
Nicholas.....				431	40,556	94
Greenbrier.....				718	32,296	45
Raleigh.....	18	7.41	99,879	740	1,797,812	2,429
Mercer.....	12	5.37	175,272	941	2,103,263	2,254
McDowell.....	175	16.41	53,800	883	9,415,069	10,661
Wyoming.....						
Lincoln.....				594	49,954	84
Logan.....	11	6.94	177,430	1,204	1,909,063	1,586
Mingo.....	4	2.32	404,395	939	1,617,581	1,722
Wayne.....				607	34,619	57
For the State.....	340	6.72	4,355,032	821	41,513,766	50,562

TABLE SHOWING THE NUMBER KILLED INSIDE OF THE MINES BY FALLS PER EACH 1,000 PERSONS EMPLOYED INSIDE OF THE MINES IN THE STATES OF OHIO, ILLINOIS, PENNSYLVANIA AND WEST VIRGINIA FROM 1897 TO 1908 INCLUSIVE.

YEARS.	Ratio Killed by Falls of Coal, Slate and Roof per 1,000 Inside Employees.				
	Ohio.	Illinois.	Pennsylvania.		West Virginia.
			Bituminous Mines.	Anthracite Mines.	
1897.....	1.07	1.52	1.50	2.13	2.75
1898.....	1.47	1.36	1.92	2.04	3.60
1899.....	1.52	1.54	2.28	2.45	3.26
1900.....	1.52	1.44	1.79	1.86	2.79
1901.....	1.38	1.43	1.95	2.29	2.95
1902.....	1.59	1.42	2.02	1.18	2.90
1903.....	2.13	1.65	1.92	2.05	3.15
1904.....	2.26	1.32	1.83	2.16	2.61
1905.....	1.98	1.49	2.19	2.53	2.62
1906.....	1.91	1.49	2.15	1.86	2.42
1907.....	2.25	1.23	2.04	2.37	3.15
1908.....	1.43	1.41	1.71	2.28	3.16
Averages.....	1.59	1.43	1.93	2.10	2.95
1909.....					2.84

DETAIL OF LIVES LOST PER TONS OF PRODUCTION.

Number of mines where fatal accidents occurred.....	173
Number of lives lost.....	364
Number of mines where fatal accidents occurred inside.....	150
Number of lives lost inside.....	340
Number of men employed inside mines where fatal accidents occurred inside...	20,556
Number of tons of coal produced where fatal accidents occurred inside.....	18,392,517
Tons of coal produced, per each life lost, in mines where fatal accidents occurred inside.....	54,095
Tons of coal produced, per each life lost in State, all mines and tonnage included.....	114,049

TABLE SHOWING THE NATIONALITY OF PERSONS KILLED, AND CAUSES OF FATAL ACCIDENTS, AT THE MINES FOR THE YEARS 1908-1909.

NATIONALITIES.	1908.												1909.													
	CAUSES.						CAUSES.						CAUSES.						CAUSES.							
	Inside.						Outside.						Inside.						Outside.							
	Falls of Coal, Slate and Roof.	Mine Cars.	Explosions of Gas.	Explosions of Powder, Dust, Dynamite and Shots.	Explosions of Gas and Dust.	Animals.	Miscellaneous.	Total Number Killed Inside.	Cars.	Machinery.	Miscellaneous.	Total Number Killed Outside.	Falls of Coal, Slate and Roof.	Mine Cars.	Explosions of Gas.	Explosions of Powder, Dust, Dynamite and Shots.	Explosions of Gas and Dust.	Animals.	Miscellaneous.	Total Number Killed Inside.	Cars.	Machinery.	Miscellaneous.	Total Number Killed Outside.	Total Number Killed Inside and Outside.	
American	51	10	2	79			18	160	1	1	2	16	48	16	1	1	1	1	1	1	130	9		1	143	143
Negro	20	11		10			5	46				4	20	19	3		60			6	100	2		4	105	105
Italian	19	4		171		1	2	197	12			2	11	10	2		4			2	25	1		1	26	26
Hungarian	19			2			2	23				1	11	11	1		4			4	16	1		1	17	17
Polish	10	1		32			1	44				1	4	11	1		1			4	16	1		1	16	16
Lithuanian				6				6					6	11	1						1	1			1	1
English	3							3					3	1	1						1	1			2	2
Slavish	1			62			1	71					1	1	1					1	9			1	10	10
Welsh																										
Austrian	4			2			1	7					2	3	1					2	5			1	3	3
Russian	2	1					4	12					3	1	1					3	13			1	14	14
German				1			1	1		1			3								3				3	3
Scotch	1			1				1					1								3				3	3
Litvich	3			5				8					1	2			3				5				5	5
Greek													3							1	3				3	3
Syrian													2								2				2	2
Romanian	2			1				3					3	1							3				3	3
Irish	1	1		2				4					4							1	3				3	3
Bohemian																					2				2	2
Spanish																					1				1	1
Unknown	3			2				5					5								3				3	3
Totals	155	28	2	375		1	28	539	12	2	12	26	625	143	31	4	128		3	31	340	10	14	24	364	364

NATIONALITIES OF PERSONS KILLED AND INJURED—1909.

NATIONALITIES.	Fatal.	Non-Fatal	Totals.
American.....	143	422	565
Negro.....	105	239	344
Italian.....	29	131	160
Hungarian.....	17	65	82
Polish.....	16	36	52
Lithuanian.....	1	12	13
English.....	2	9	11
Slavish.....	10	36	46
Welsh.....	.....	3	3
Austrian.....	6	16	22
Russian.....	14	21	35
German.....	2	7	9
Scotch.....	3	6	9
Litvian.....	.....	4	4
Greek.....	5	7	12
Syrian.....	1	5	6
Romanian.....	3	8	11
Danish.....	.....	1	1
Spanish.....	1	.....	1
Irish.....	1	2	3
Bohemian.....	1	.....	1
Unknown.....	4	2	6
Totals.....	364	1,032	1,396

AGES OF PERSONS KILLED AND INJURED—1909.

AGES.	Fatal.	Non-Fatal	Totals.
14 years or younger.....	.....	8	8
15 years.....	12	15	27
16 years.....	5	25	30
17 years.....	10	14	24
18 years.....	18	31	49
19 years.....	15	33	48
20 years.....	12	48	60
20 years to 25 years including 25.....	63	272	335
25 years to 30 years including 30.....	60	205	265
30 years to 35 years including 35.....	53	132	187
35 years to 40 years including 40.....	55	99	154
40 years to 45 years including 45.....	24	64	88
45 years to 50 years including 50.....	9	27	36
50 years to 55 years including 55.....	11	13	24
55 years to 60 years including 60.....	2	14	16
60 years to 65 years including 65.....	2	2	4
65 years to 70 years including 70.....	2	1	3
Unknown.....	9	29	38
Totals.....	364	1,032	1,396

TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED AT THE WEST VIRGINIA COAL MINES, 1901
TO 1909, INCLUSIVE.

LENGTH OF EXPERIENCE.	1901.			1902.			1903.			1904.			1905.		
	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.
3 months or less	18	30	48	19	25	44	26	44	70	15	28	43	26	34	60
Over 3 months and including 6 months	6	13	19	9	8	17	5	21	26	8	15	23	8	18	26
Over 6 months and including 12 months	13	20	33	13	30	43	21	31	52	15	25	40	11	26	37
2 years	8	16	24	14	26	40	15	15	30	14	33	47	28	31	59
3 years	4	6	10	6	12	18	4	14	18	8	14	22	25	19	44
4 years	4	7	11	8	10	18	8	8	16	6	9	15	12	10	22
5 years	2	9	11	6	10	16	12	15	27	9	13	22	12	14	26
6 years	3	10	13	2	6	8	3	3	6	3	6	9	9	9	18
7 years	2	2	4	1	1	2	2	2	4	1	1	2	2	2	4
8 years	4	3	7	3	4	7	6	7	13	3	3	6	4	4	8
9 years		3	3	3	4	7	2	4	10	1	1	2	2	1	3
10 years	6	1	7	7	2	9	5	7	12	3	2	5	5	2	7
Over 10 years and including 15 years	3	8	11	5	20	27	3	9	32	14	1	15	14	9	23
Over 15 years and including 20 years	3	8	11	5	3	8	10	5	15	5	6	11	10	8	18
Over 20 years and including 25 years		1	1	2	3	5	5	4	9	3	12	15	6	8	14
Over 25 years and including 30 years	1	2	3	1	1	2	2	2	4	2	3	5	4	4	8
Over 30 years and including 35 years				1	1	2	2	2	4	2	2	4	2	2	4
Over 35 years and including 40 years	1	1	2	1	1	2	2	2	4	2	2	4	2	2	4
Over 40 years and including 45 years	1	1	2	1	1	2	2	2	4	1	1	2	2	1	3
Over 45 years and including 50 years					5	5		1	1	1		1			
Several years	1	1	2							2		2			
Always	6	5	11	2	5	7	10	11	21	8	6	14	1	11	11
Many years	3	2	5	2	6	8	1	3	4	4		6		2	3
Unknown	39	28	67	16	48	64	23	22	45	27	25	52	16	31	47
Totals	130	180	310	120	239	359	159	223	382	140	211	351	194	250	444

TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED AT THE WEST VIRGINIA COAL MINES, 1901 TO 1909, INCLUSIVE—Continued.

LENGTH OF EXPERIENCE.	1906.			1907.			1908.			1909.			Sum Totals.
	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	
3 months or less.....	24	27	51	20	48	68	33	91	124	22	63	85	593
Over 3 months and including 6 months.....	9	20	29	16	22	38	34	45	79	14	43	57	334
Over 6 months and including 12 months.....	20	35	56	23	63	86	108	106	214	35	108	143	704
3 years.....	36	54	90	20	55	75	68	70	138	56	161	217	689
4 years.....	16	32	48	17	39	56	47	54	101	36	88	124	451
5 years.....	16	19	35	14	34	48	37	36	73	15	44	59	297
6 years.....	14	17	31	14	20	34	66	46	112	26	60	86	365
7 years.....	11	6	17	12	19	31	40	27	67	14	34	48	217
8 years.....	3	4	7	3	9	12	9	12	21	12	23	35	105
9 years.....	11	8	19	1	8	9	38	27	65	9	32	41	166
10 years.....	1	2	3	1	1	2	3	4	7	5	13	18	46
Over 10 years and including 15 years.....	10	13	23	14	11	25	32	35	67	17	49	66	258
Over 15 years and including 20 years.....	11	8	19	7	17	24	19	40	59	27	54	81	252
Over 20 years and including 25 years.....	7	9	16	10	9	19	19	19	38	13	38	51	171
Over 25 years and including 30 years.....	2	4	6	4	6	10	1	8	9	6	15	21	68
Over 30 years and including 35 years.....	1	2	3	2	3	5	7	7	14	4	5	9	36
Over 35 years and including 40 years.....	1	1	2	2	2	4	2	4	6	4	4	8	12
Over 40 years and including 45 years.....	2	1	3	3	2	5	1	1	2	2	3	5	22
Over 45 years and including 50 years.....	1	1	2	3	1	4	1	1	2	2	2	4	3
Several years.....	12	10	22	.....	15	15	11	33	44	.....	.....	.....	145
Many years.....	3	2	5	1	3	4	4	11	15	.....	1	1	42
Always.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
Unknown.....	50	52	102	174	62	236	44	166	210	51	205	256	1,079
Totals.....	268	290	557	356	448	804	625	842	1,467	364	1,032	1,396	6,080

TABLE EXHIBITING THE CAUSES OF FATAL AND NON-FATAL ACCIDENTS AND THE NUMBER AND PERCENTAGE BY EACH CAUSE—1909.

CAUSES.	Fatal.	Non-Fatal.	Totals.	Per-centage.
Explosion of Dust.....	116	3	119	8.52
Falls of Slate.....	106	360	466	33.38
Mine Cars (Inside).....	31	241	272	19.47
Mine Cars (Outside).....	10	39	49	3.50
Falls of Roof.....	28	140	168	12.00
Electric Motor.....	15	36	51	3.65
Mining Machinery.....	.....	15	15	1.08
Explosion of Gas.....	5	15	16	1.15
Electricity.....	12	5	17	1.22
Explosion of Powder.....	2	9	11	.79
Premature Explosions of Powder.....	8	20	28	2.05
Falls of Rock.....	7	2	9	.65
Animals.....	4	16	20	1.43
Falls of Coal.....	3	2	5	.36
Larry.....	2	2	4	.29
Flying Coal.....	2	18	20	1.43
Fell Down Shaft.....	2	.....	2	.15
Blown Through Shot.....	2	1	3	.22
Mine Cage.....	1	3	4	.29
Mine Pump.....	1	1	2	.15
Rail Road Cars.....	.....	8	8	.57
Tipple.....	1	7	8	.57
Blown Out Shot.....	.....	6	6	.43
Monitor.....	.....	6	6	.43
Locomotives.....	.....	5	5	.36
Mine Props.....	.....	5	5	.36
Scalded by Steam.....	.....	3	3	.22
Explosion of Dynamite Caps.....	.....	3	3	.22
Flying Steel.....	.....	2	2	.15
Coke Machines.....	1	1	2	.15
Engine Machinery.....	.....	1	1	.07
Coke Oven.....	.....	1	1	.07
Fall of Timber.....	.....	1	1	.07
Miscellaneous (Inside).....	4	28	32	2.29
Miscellaneous (Outside).....	3	20	23	1.66
Totals.....	364	1,032	1,396	100.00

TABLE SHOWING NUMBER OF FATAL AND NON-FATAL ACCIDENTS, INSIDE AND OUTSIDE, AND NUMBER OF PERSONS KILLED AND INJURED—1909.

Fatal Accidents.

	No. of Accidents.	No. of Persons Killed.
Inside.....	209	240
Outside.....	21	24
Totals.....	230	264

Non-Fatal Accidents

	No. of Accidents.	No. of Persons Injured.
Inside.....	494	936
Outside.....	84	96
Totals.....	578	1,032

**ACCIDENTS TABULATED ACCORDING TO THE DAYS OF THE WEEK
ON WHICH THEY OCCURRED—1909.**

Fatal Accidents.

	Sunday.	Monday.	Tuesday.	Wed'sday	Thursday	Friday.	Saturday.	Totals.
Inside	2	35	155	45	37	32	34	340
Outside .....	...	5	6	2	2	4	5	24
Totals	2	40	161	47	39	36	39	364

Non-Fatal Accidents.

	Sunday.	Monday.	Tuesday.	Wed'sday	Thursday	Friday.	Saturday.	Totals.
Inside	11	174	150	164	153	134	128	914
Outside	2	22	20	21	19	16	18	118
Totals	13	196	170	185	172	150	146	1,032

Summary of Fatal and Non-Fatal Accidents.

	Sunday.	Monday.	Tuesday.	Wed'sday	Thursday	Friday.	Saturday.	Totals.
Inside	13	209	305	209	190	166	162	1,254
Outside	2	27	26	23	21	20	23	142
Totals	15	236	331	232	211	186	185	1,396

**LIST OF ACCIDENTS IN WHICH MORE THAN ONE PERSON WAS
KILLED—1909.**

COUNTY.	NAME OF MINE.	DATE OF ACCIDENT.	NO. OF PERSONS KILLED.	CAUSE.
Marion	<i>a</i> Pennois	August 8, 1908 ..	2	Fall of Slate.
Marion	Chatham No. 1	September 10, 1908	2	Fall of Slate.
Marion	Air Shaft No. 1	September 15, 1908	3	Explosion of Gas.
Fayette	Echo	March 31, 1909 ..	6	Premature Explosion.
Fayette	Mt. Carbon	April 6, 1909 ..	2	Runaway on Incline (Outside).
McDowell	<i>b</i> Lick Branch	December 29, 1908	49	Explosion of Dust.
McDowell	<i>c</i> Lick Branch	January 12, 1909 ..	67	Explosion of Dust.
McDowell	Shawnee	March 25, 1909 ..	2	Fall of Coal.
Mingo	<i>d</i> Rutherford	August 8, 1908 ..	3	Runaway on Incline (Outside).
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a. In this accident one man was non-fatally injured by fall of slate.

b. In this accident two men were non-fatally injured by explosion of dust.

c. In this accident one man was non-fatally injured by explosion of dust.

d. In this accident one man was non-fatally injured (outside) by runaway on incline:

**FATAL AND NON-FATAL ACCIDENTS TABULATED ACCORDING TO
DISTRICTS IN WHICH THEY OCCURRED—1909.**

	Fatal.	Non-Fatal.
1st District	23	60
2nd District	15	71
3rd District	5	63
4th District	9	57
5th District	10	25
6th District	14	43
7th District	8	37
8th District	28	126
9th District	37	145
10th District	144	135
11th District	49	216
12th District	22	54
Totals	364	1,032

"RELATION OF THE USE OF POWDER TO MINE ACCIDENTS."

STATEMENT OF POWDER ACCIDENTS.

WEST VIRGINIA, 1897-1909.

YEARS.	Tons.	Total Killed and Injured all Accidents.	Total Killed and Injured Powder Acci- dents.	Percent Killed and Injured Powder Acci- dent of Total Killed and In- jured.	Tons per Powder Accident.
1897-1900	62,827.138	1,039	34	3.27	1,847.857
1901-1904	95,373.487	1,402	144	10.27	648,427
1905-1908	148,088.875	3,282	773	23.55	19,158
1909	41,513.766	1,396	46	3.29	29,737

"ILLINOIS."

1888-1892	69,614.489	1,678	119	7.09	584,995
1893-1897	94,658.388	3,081	233	7.56	406,259
1898-1902	123,844.292	2,925	219	7.48	565,499
1903-1907	195,332.873	3,334	384	11.48	508,679
1908	42,845.628	1,002	65	6.48	42,760

"OHIO."

1888-1892	61,257.285	1,246	85	6.82	720,674
1893-1897	65,783.625	1,435	108	7.52	609,108
1898-1902	93,644.275	2,201	105	4.77	891,850
1903-1907	134,571.182	3,317	166	5.00	810,669
1908	26,287.800	708	27	3.81	973,622

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of Experience.	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance Amount.	How Killed.	In.
			Injury.	Death.											
Brooke County.															
1	Beech Bottom	Peter Konovitch.	2-23-09	2-23-09	Russian	Unk'n	21	Miner	M	yes	1	2	8	Electrocuted (outside)	No
2	Lewis No. 1	Andy Saladi	6-21-09	6-21-09	Slavish	6 yrs	40	Miner	M	yes	4	5	5		No
Marion County.															
3	Monongah No. 6	Melham Rubish	7-30-08	7-30-08	Polish	3 mos	24	Miner	M	yes				Fall of slate	No
4	Pennsils	John Harlo	8-8-08	8-8-08	Slavish	1 yr	45	Miner	M	yes				Fall of slate	No
5	Pennsils	Paul Karful	8-8-08	8-8-08	Slavish	3 yrs	50	Miner	M	yes	4	5		Fall of slate	No
6	Highland	Augustine Desista	8-11-08	8-11-08	Italian	1 yr	19	Miner	M	yes				Fall of slate	No
7	Chickton	Eliza Cirtle	8-17-08	8-17-08	Austrian	8 mos	18	Miner	M	yes				Fall of slate	No
8	Chatham No. 1	Fedor Rason	9-10-08	9-10-08	Italian	1 yr	37	Miner	M	yes			175 00	Fall of slate	Yes
9	Chatham No. 1	Bunningham Rason	9-10-08	9-10-08	Italian	1 yr	35	Miner	M	yes			175 00	Fall of slate	Yes
10	Shaft	Toney Marzol	9-21-08	9-21-08	Italian	3 yrs	18	Miner	M	yes				Fall of slate	No
11	New England	Visto Pinchito	10-22-08	10-22-08	Italian	6 yrs	33	Statenman	M	yes				Fall of slate	No
12	Chickton	John Matusky	12-3-08	12-3-08	Slavish	2 yrs	31	Miner	M	yes	1	1		Fall of slate	No
13	Kingdom	Francesco Parisi	3-30-09	3-30-09	Italian	3 yrs	38	Miner	M	yes	1	1		Fall of slate	No
14	Chatham No. 1	Sam Meelage	4-11-09	4-12-09	Austrian	4 yrs	24	Statenman	M	yes			175 00	Fall of slate	No
15	Air Shaft No. 1	Charles McDonald	4-15-09	4-15-09	Unknown	Unk'n		Sup	M	yes				Explosion of gas	No
16	Air Shaft No. 1	Robert Maynard	4-15-09	4-15-09	Unknown	Unk'n		Foreman	M	yes				Explosion of gas	No
17	Air Shaft No. 1	Lennie Cook	4-15-09	4-15-09	Unknown	Unk'n			M	yes				Explosion of gas	No
18	Chatham No. 1	J. C. Holcomb	5-29-09	4-29-09	American	4 yrs	55	Miner	M	yes	2	2		Fall of slate	Yes
19	Chatham No. 1	Tom Kottich	5-27-09	5-27-09	American	3 yrs	55	Miner	M	yes				Fall of slate	Yes
20	Federal	Andrew Hanton	6-10-09	6-12-09	Irish	Unk'n	20	Driver	M	yes	2	2		Electric motor	No
21	Parker Run	David S. Stewart	6-10-09	6-12-09	American	6 mos	27	Miner	M	yes				Fall of coal	No
22	Highland	Ross Panetta	6-24-09	6-24-09	Italian	Unk'n	26	Miner	M	yes				Fall of slate	No
Marshall County.															
23	Hutchman	Robert Williams	9-30-08	9-30-08	American	8 mos	19	Loader	M	yes				Fall of stone	Yes
Harrison County.															
24	Fulmer No. 1	Steve Miller	7-20-08	7-31-08	Austrian	Unk'n	19	Miner	M	yes				Fall of rock	No
25	Viroba	Gbor Isbarig	8-8-08	8-8-08	Hungari'n	1 yr		Miner	M	yes				Fall of slate	No
26	Pittsboro	Wayne Greyholls	8-13-08	8-13-08	American	1 yr	15	Driver	M	yes				Mine car	No
27	Harold	G. B. Spangler	8-26-08	8-26-08	American	1 yr	38	Miner	M	yes	2	2	100 00	Fall of slate	No
28	Cork	George Kuriz	10-8-08	10-8-08	American	7 mos	38	Miner	M	yes				Fall of coal	No
29	Waldo	Ira E. Hurs	11-27-08	11-27-08	American	8 yrs	27	Driver	M	yes	2	2	50 00	Kicked by horse	No
30	Interstate	Wade Crisp	12-2-08	12-2-08	American	3 yrs	22	Driver	M	yes				Fall of slate	No
31	Gypsy	Philip Panica	3-6-09	3-6-09	Italian	3 yrs	52	Miner	M	yes	1	1		Fall of Coal	No

32	Gypsy	Mike Tarzio	5-10-09	Italian	4 yrs	35	Slateman	M	Yes	4	5	Fall of slate	No
33	Perry	Joe Pegoda	5-18-09	Hungarian	1 yr	45	Miner	M	Yes	2	3	Fall of slate	No
34	Fall Run	Pete Gallon	5-19-09	Italian	5 yrs	34	Miner	M	Yes	2	3	Fall of slate	No
35	Meadowbrook	Sam Joseph	5-25-09	Serbian	5 yrs	20	Miner	M	Yes	2	3	Fall of slate	No
36	Vienna	Joe Pence	6-28-09	Austrian	2 yrs	28	Loader	M	Yes	2	3	Fall of coal	No
<i>Upshur County.</i>													
37	Red Rock No. 1	Angelo Corobotte	10-3-08	Italian	2 yrs	47	Water Bailor	M	Yes	4	5	Mine car	Yes
38	Red Rock No. 1	James A. Wallace	1-21-09	Negro	7 yrs	20	Miner	M	Yes	2	3	Fall of slate	No
<i>Barbour County.</i>													
39	Berryburg	Joe Polliskey	2-18-09	Polish	15 yrs	35	Shooter	M	Yes	2	3	Mine pump	No
<i>Preston County.</i>													
40	Masontown No. 6	Patsy Knobly	10-14-08	Italian	4 yrs	28	Miner	M	Yes	4	5	Mine car	No
41	Austen No. 1	Philip Miller	10-27-08	American	5 yrs	20	Miner	M	Yes	2	3	Fall of slate	No
42	Masontown No. 6	Pete Rovelli	1-3-09	Italian	5 yrs	25	Noterman	M	Yes	1	2	Electric motor	No
43	No. 2, or Brez	Ray Rhor	3-18-09	American	1 yr	25	Laborer	M	Yes	1	2	Fell through coal bin (outside)	No
<i>Mineral County.</i>													
44	Montgomery R'n No. 19	William Brathwait	8-27-08	American	6 yrs	29	Miner	M	Yes	2	3	Blown through shot	No
45	Ott No. 20	Joe Wilhelm	9-1-08	American	6 yrs	31	Miner	M	Yes	4	4	Fall of rock	No
46	No. 6	Albert Warwick	9-11-08	American	24 yrs	45	Miner	M	Yes	8	9	Fall of roof	No
47	Fyson No. 10	Harley Harris	9-18-08	American	3 mos	15	Trapper	M	Yes	2	3	Mine car	No
48	Montgomery R'n No. 19	Robert W. Hudson	1-26-09	American	3 yrs	17	Miner	M	Yes	2	3	Mine car	No
<i>Franklin County.</i>													
49	Weaver No. 1	Ray Proudfoot	1-10-09	American	5 yrs	19	Rope Rider	M	Yes	2	3	Mine car	No
<i>Tucker County.</i>													
50	Thomas No. 34	Larry Covelaris	10-1-08	Lithuanian	7 yrs	34	Miner	M	Yes	1	2	Fall of roof	No
51	Thomas No. 34	William Kabanosky	10-16-08	Polish	4 yrs	37	Miner	M	Yes	2	3	Fell off shaft	Yes
52	Douglas No. 5	Joseph Wofara	2-10-09	Italian	4 yrs	28	Miner	M	Yes	2	3	Fall of coal	Yes
<i>Mason County.</i>													
53	Menden	Thomas Farley	11-5-08	American	15 yrs	52	Miner	M	Yes	2	3	Flying coal	No
<i>Putnam County.</i>													
54	Black Betsey No. 2	Augustus C. Stevens	7-18-08	American	20 yrs	55	Miner	M	Yes	2	3	Fall of coal	No
55	Oak Forest	Isaac Smith	1-14-09	American	8 yrs	30	Miner	M	Yes	2	3	Fall of coal	No
56	Manila	Stanhope Taylor	4-15-09	Negro	10 yrs	32	Miner	M	Yes	2	3	Premature explosion	No
<i>Fayette County.</i>													
57	Scarburo	Jack Lauskie	7-1-08	Polish	3 yrs	35	Driver	M	Yes	2	3	Electrocuted	No
58	No. 2 South	Cecil Butler	7-5-08	Negro	4 yrs	18	Laborer	M	Yes	2	3	Electric motor	No
59	Carlsie	Maven Lashinsky	7-17-08	Polish	2 yrs	45	Miner	M	Yes	2	3	Fall of coal	Yes
60	Brooklyn	Lavren Lashinsky	7-18-08	Russian	10 mos	22	Laborer	M	Yes	2	3	Fall of slate	No
61	Star	John Patton	7-25-08	American	3 yrs	15	Brickman	M	Yes	2	3	Mine car	No
62	Kolliwoor	Paul Adams	8-25-08	Russian	5 yrs	35	Miner	M	Yes	2	3	Electric motor	No
63	No. 2 North	Joe Beferle	8-29-08	Italian	2 mos	35	Miner	M	Yes	2	3	Electric motor (outside)	No

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date. of		Nationality.	Length of Experience	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents	Insurance Amount.	How Killed.	Inquest.
			Injury.	Death.											
	Fayette County—														
64	Cliff Top No. 1	Con'l. Sam Moody	9-4-08	9-4-08	American	1 yr	16	Miner						Mine car	No
65	Stuart	Garfield Peake	9-5-08	9-5-08	Negro	8 yrs	24	Stable Boss						Killed by mule	Yes
66	Rush Run	Julius Volzoe	9-5-08	9-5-08	Austrian	20 yrs	32	Statenman						Fall of slate	Yes
67	Stone Cliff	Price Mitchell	9-5-08	9-5-08	Negro	20 yrs	42	Miner	M	yes		1	300 00	Fall of slate	No
68	Stuart	Henry Carter	9-12-08	9-12-08	Negro	18 mos	22	Laborer						Fell down shaft	Yes
69	Wingrove	Joe Stoney	9-15-08	9-15-08	Polish	3 yrs	23	Miner						Electrocuted	No
70	Harvey	Robert Smith	9-22-08	9-22-08	American	8 mos	16	Trip Rider						Struck by windlass.	No
71	Ridgeview	Edgar Whitrow	9-23-08	9-23-08	American	Unk'n	17	Driver						Mine car	No
72	No. 2 South	Cornelius Bird	9-23-08	9-23-08	Negro	15 yrs	45	Mach. Runner	M	yes	1	2	50 00	Struck by mach. bar	No
73	Whipple	John Jukis	9-26-08	10-2-08	Polish	3 yrs	36	Miner	M	yes			50 00	Fall of coal	Yes
74	Dunlop No. 2	James Brown	9-28-08	10-2-08	American	4 yrs	37	Miner						Fall of slate	No
75	Brooklyn	Toney Mc Nitsch	10-9-08	10-9-08	Russian	10 yrs	30	Loader						Electrocuted	No
76	Sunny Side	Lundy Fox	10-12-08	10-12-08	American	2 yrs	17	Brake-man						Electrocuted	No
77	Minden	Willie Krouse	10-16-08	10-16-08	American	Unk'n	17	Trip Rider						Electric motor	No
78	Layland	Delbert Walker	10-17-08	10-20-08	American	Unk'n	28	Miner						Electric motor (outs e)	No
79	Beech Creek	Vete Angelo	10-19-08	12-1-08	Italian	Unk'n	20	Miner						Fall of slate	No
80	Dungen	Elliah Belvas	10-23-08	10-24-08	American	Unk'n	9 yrs	43	Miner	M	yes			Fall of slate	No
81	Sugar Creek No. 2	Robert Jenison	11-7-08	11-7-08	Negro	Unk'n	32	Miner						Premature shot	No
82	Madaw Fork	Wm. T. Brizendine	11-30-08	11-30-08	American	3 yrs	18	Brake-man	M	yes	4	5		Electric motor	No
83	Minden No. 5	Calvin Colman	12-4-08	12-4-08	American	Unk'n	19	Brake-man						Coke oven farry (outside)	Yes
84	San	Henry Smith	12-28-08	12-28-08	Negro	Unk'n	19	Brake-man					212 00	Fell off car	No
85	Keeney	Ed. Kassuth	12-29-08	12-29-08	American	2 yrs	16	Driver						Fall of slate	No
86	Keeney	Alexander Holiday	1-30-09	1-30-09	American	5 yrs	40	Mine Foreman	M	yes	1			Fall of slate	No
87	Blume	Manuel Holloway	2-1-09	2-1-09	Negro	20 yrs	45	Miner					50 00	Fall of slate	Yes
88	Carlisle	Raymond Mitta	2-10-09	2-18-09	Polish	Unk'n	40	Miner					50 00	Explos'n of powder	Yes
89	Collins No. 2	James Gumbush	3-3-09	3-3-09	Hungari'n	5 yrs	35	Miner	M	yes	1		50 00	Fall of coal	Yes
90	Boone	Fred E. Goode	3-6-09	3-6-09	American	6 yrs	20	Loader						Electric motor	No
91	Minden No. 5	Charles Wellman	3-17-09	3-17-09	American	3 yrs	15	Trapper	M					Electric motor	Yes
92	Diamond	John Cooke	3-18-09	3-18-09	Greek	6 yrs	70	Miner	M					Mine car	No
93	San	Ambrose Proctor	3-24-09	3-24-09	American	1 yr	19	Laborer						Fall of slate	Yes
94	Blume	Robert Hether	3-24-09	3-24-09	American	3 yrs	35	Miner	M	yes	1	2		Mine car	No
95	Echo	Sam Melhorn	3-31-09	3-31-09	Negro	2 yrs	27	Miner	M	yes	2	3		Premature explos'n	No
96	Echo	Andy Melhorn	3-31-09	3-31-09	American	2 yrs	21	Miner	M	yes				Premature explos'n	No
97	Echo	William Smith	3-31-09	3-31-09	American	2 yrs	50	Trackman	M	yes				Premature explos'n	No
98	Echo	John Bloomfield	3-31-09	3-31-09	American	2 yrs	28	Miner	M	yes	2	3	25 00	Premature explos'n	No
99	Echo	Charles Jones	3-31-09	3-31-09	American	15 yrs	33	Miner					25 00	Premature explos'n	No

100 Echo.....	A. D. Sudenstricker	3-31-09	4-4-09	American	2 yrs	35 Boss Driver	M	4	4 1/2	25 00	Premature explos'n	No
101 Edwards.....	Calvin Eades	4-6-09	4-6-09	American	2 yrs	31 Clk Weighman	M	7	7		Runaway on incline (outside)	No
102 Edwards.....	Thomas Toney	4-6-09	4-6-09	American	2 yrs	43 Foreman	M	5	6		Runaway on incline (outside)	No
103 Austed.....	Henry Archer	4-13-09	4-13-09	Negro	2 yrs	25 Miner	M	yes	1	100 00	Fall of slate	No
104 Laura.....	H. F. Daniels	4-20-09	4-20-09	American	14 yrs	38 Miner	M	yes		50 00	Fall of slate	Yes
105 Ridgeview.....	Walter Copeland	4-25-09	5-5-09	American	8 yrs	28 Miner	M	yes	1		Fall of slate	No
106 Dungenle No. 2	Ludwig Josa	4-30-09	4-30-09	Polish	1 yr	22 Miner	M				Fall of slate	No
107 Jones.....	Theodor Symk	5-1-09	5-1-09	Russian	4 mos	20 Miner	M	yes	1	90 00	Fall of rock	No
108 Minden No. 2	Charles Adams	5-31-09	5-31-09	American	10 yrs	32 Driver	M				Fall of slate	No
109 Laurel.....	Joseph Lee	6-3-09	6-3-09	Negro	18 yrs	40 Miner	M	yes		50 00	Fall of slate	Yes
110 Minden No. 3	John J. Spiers	6-21-09	6-21-09	American	5 mos	13 Brakeman	M				Electric motor	Yes
111 Sun.....	William Walker	6-30-09	6-30-09	Negro	4 mos	33 Laborer	M	yes	1		Electrocuted	No
<i>Kanawha County</i>												
112 Hughston No. 2	Pete Saunders	8-4-08	8-5-08	Negro	2 yrs	30 Miner	M	yes	1		Fall of coal	No
113 West.....	Chap Ashury	8-6-08	8-6-08	American	25 yrs	48 Miner	M	yes	8		Fall of slate	No
114 Kayford.....	Lianus Williams	8-12-08	8-12-08	American	Unk'n	15 Laborer	M				Fall of coal	No
115 Remble No. 1	Justin Dumanisky	8-19-08	8-19-08	Hungarian	5 yrs	45 Miner	M	yes	6		Fall of coal	No
116 Paint Creek	Clarence Tompson	8-28-08	8-28-08	American	2 yrs	17 Driver	M			50 00	Mine car	No
117 Red Warrior	B. C. Cowan	9-11-08	9-11-08	American	Unk'n	21 Mach. Helper	M				Fall of slate	No
118 United Spint	Winces Cerkasas	9-28-08	9-28-08	Polish	Unk'n	36 Loader	M				Fall of slate	No
119 La Mont.....	B. F. O'Dell	10-8-08	10-8-08	American	Unk'n	68 Timmer	M	yes	1		Fell'n in bin (o'ls'v)	No
120 Oakley.....	Calvin E. Bridwell	10-19-08	10-19-08	American	Unk'n	38 Laborer	M	yes	1		Flying coal (o'ls'v)	No
121 Seranton.....	John Hemenan	11-18-08	11-18-08	German	30 yrs	55 Miner	M	yes	4	250 00	Fall of slate	No
122 Red Warrior	Harry Akers	11-20-08	11-20-08	American	Unk'n	20 Miner & Lab	M				Fall of slate	No
123 Ruby.....	James Young	12-17-08	12-17-08	Negro	Unk'n	24 Driver	M				Fall of slate	No
124 Oakley.....	John L. Perfater	12-25-08	12-25-08	American	30 yrs	42 Foreman	M	yes	7	1,000 00	Fall of slate	No
125 Paint Creek	George Cadwallander	1-4-09	1-4-09	American	4 yrs	19 Spraggler	M				Fall of coal	No
126 Kelley's Creek No. 3	Joe Jurasis	1-9-09	1-9-09	Hungarian	Unk'n	35 Miner	M				Blown through shot	No
127 Chesapeake No. 3	L. M. Bailey	4-2-09	4-2-09	American	4 mos	28 Loader	M	3			Fall of slate	No
128 Belle Clare	Ira Ballard	4-13-09	4-13-09	American	Unk'n	15 Trapper	M				Dragged by mule (outside)	No
129 Blakeley.....	William Balsor	6-11-09	6-11-09	American	40 yrs	56 Miner	M	yes	6	50 00	Mine car (outside)	No
130 Putney No. 3	Riley Murry	6-19-09	6-19-09	American	24 yrs	64 Miner	M	yes	1		Iron bar	No
131 South No. 3	Ira Blake	6-29-09	6-29-09	American	31 mos	20 Mach. Helper	M				Electric motor	No
132 South Carbon Spint	Frank Scott	6-30-09	6-30-09	American	4 yrs	17 Motor Helper	M				Electric motor	No
<i>Raleigh County</i>												
133 Eccles No. 11	Alex Melick	8-4-08	8-4-08	Slavish	Unk'n	35 Laborer	M				Fall of slate	No
134 Raleigh No. 6	Davy Ferguson	8-28-08	9-6-08	Scotch	10 yrs	29 Miner	M				Fall of slate	No
135 Piney No. 3	James G. Ford	9-9-08	9-9-08	American	8 yrs	27 Miner	M	yes	3	1,000	Fall of slate	Yes
136 Cranberry	Villan Colsuski	9-11-08	9-11-08	Polish	Unk'n	40 Miner	M	yes		50 00	Fall of slate	No
137 Lanark.....	Harry M. Cole	9-21-08	10-5-08	American	18 mos	23 Driver	M				Kicked by mule	Yes
138 Raleigh No. 3	Joe Kolot	10-7-08	10-7-08	Slavish	3 yrs	28 Miner	M	yes	2		Electrocuted	Yes
139 Cranberry.....	Ben Owens	10-8-08	10-14-08	Slavish	5 yrs	30 Staleman	M				Fall of slate	No
140 Eccles No. 11	Conn Frodo	10-31-08	11-31-08	Italian	Unk'n	35 Cage Helper	M			50 00	Mine car	Yes
141 Raleigh No. 3	William McAnney	11-11-08	11-11-08	Scotch	10 yrs	32 Miner	M	yes	1		Fall of slate	Yes
142 No. 3 Stonewall	Jeff Pollard	12-10-08	12-10-08	Negro	4 mos	30 Miner	M			50 00	Fall of slate	No

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Injury.	Date of Death.	Nation-ality.	Length of Experience.	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance Amount.	How Killed.	Inquest.
<i>Raleigh County.</i>															
143	Dorothy	James Hunter	12-30-08	1-6-09	American	6 yrs	25	Motorman	M	Yes	4		\$	Electric motor	No
144	Oswald	Steve Putata	1-11-09	1-11-09	Slavish	3 yrs	32	Miner	M	Yes			51,000 00	Fall of slate	Yes
145	Cranberry	Curtis Gilliam	1-10-09	1-10-09	Negro	Unk'n	35	Macl. Helper	M				50 00	Fall of slate	No
146	Lanark	Domingo Largen	4-27-09	4-27-09	Spanish	2 yrs	35	Miner	M					Fall of slate	No
147	Cranberry	George Pearson	5-13-09	5-13-09	English	16 yrs	31	Miner	M					Fall of slate	No
148	Sprague	Riley W. Barger	5-17-09	5-17-09	American	15 yrs	35	Miner	M	Yes	1		50 00	Fall of slate	No
149	Graham	Joe Stokel	6-18-09	6-18-09	Polish	3 yrs	46	Miner	M	Yes			50 00	Fall of slate	No
150	Prosperity	John Ross	6-20-09	6-20-09	American	15 yrs	31	Miner	M	Yes			50 00	Fall of slate	No
<i>Mercer County.</i>															
151	West	Harry Buchanan	7-7-08	7-7-08	American	2 mos	14	Deer Boy	M	Yes	2			Fall of slate	No
152	Pinnacle South	Steven Allen	7-11-08	7-11-08	Negro	1 yrs	30	Laborer	M	Yes				Mine car (outside)	No
153	Buckeye South	Ed. Logan	7-27-08	7-27-08	Negro	2 yrs	30	Driver	M	Yes	1			Mine car	No
154	Spring	Joseph Warrnuth	8-20-08	8-20-08	Hungarian	2 yrs	28	Miner	M					Fall of slate	No
155	Pinnacle South	Fred Davis	9-16-08	9-16-08	American	2 mos	18	Miner	M					Fall of slate	No
156	Pawana	Ed Day	11-6-08	11-6-08	Negro	3 mos	21	Miner	M				30 00	Fall of slate	Yes
157	Weyanoke No. 1	John G. Lester	11-24-08	11-24-08	American	4 yrs	24	Miner	M					Fall of slate	No
158	Crystal	Jacob Hodges	12-12-08	12-12-08	American	1 yr	28	Miner	M					Fall of slate	No
159	Spring	Raleigh P. Adams	1-20-09	1-20-09	American	Unk'n	21	Miner	M					Fall of slate	No
160	Crane Creek No. 1	John Shemler	4-5-09	4-5-09	Slavish	7 yrs	45	Miner	M	Yes	3		600 00	Fall of slate	Yes
161	Coaldale	A. D. Reynolds	5-27-09	5-27-09	Negro	10 yrs	38	Miner	M	Yes				Fall of slate	No
162	Coaldale	Frank Marlowe	5-20-09	5-20-09	American	1 mo	41	Laborer	M	Yes				Fall of slate	No
163	Spring	Charles L. Crawford	5-31-09	6-1-09	American	8 yrs	38	Miner	M		1			Fall of coal	No
<i>McDowell County.</i>															
164	Peerless	John Bell	7-7-08	7-7-08	Negro	3 yrs	24	Miner	M	Yes	2			Fall of slate	No
165	Big Sandy	George Eagle	7-13-08	7-13-08	German	3 yrs	15	Trapper	M					Mine car	No
166	Indian Ridge	Arthur Brown	7-17-08	7-17-08	American	Unk'n	15	Car Dropper	M					Pellott's (o's de)	Yes
167	Crozer No. 2	Roman Stick	7-18-08	7-18-08	Russian	9 mos	28	Miner	M					Fall of slate	Yes
168	U. S. No. 1	Andy Gornick	7-20-08	8-1-08	Hungarian	6 yrs	42	Miner	M					Fall of coal	No
169	U. S. No. 2	Geo. Gornick	8-4-08	8-4-08	Negro	1 day	21	Miner	M					Fall of slate	No
170	A. B. No. 2	James Patterson	8-6-08	8-6-08	Negro	2 yrs	24	Trapper	M					Elect' d (o's de)	No
171	No. 3	George Hinkle	8-7-08	8-7-08	American	10 yrs	35	Miner	M					Fall of slate	No
172	Enreka	George Dobson	8-7-08	8-7-08	Negro	1 yr	31	Miner	M	Yes	5			Fall of slate	Yes
173	Hall No. 1	George T. Crigger	8-7-08	9-3-08	American	2 mos	18	Laborer	M		6			Fall of slate	No
174	Lynchburg	Jack Catzen	8-22-08	8-22-08	Greek	1 yr	40	Miner	M	Yes	6		50 00	Mine car	No
175	Jed	Alex. Kish	8-25-08	8-25-08	Hungarian	5 yrs	40	Miner	M	Yes			100 00	Fall of slate	No

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of Experience.	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance Amount.	How Killed.	Inquest.
			Injury.	Death.											
McDonnell County.															
2223	Lick Branch	Con't.	12-20-08	12-20-08	American	5 yrs	28	Miner.	M	yes	12	36		Explosion of dust	Yes
2224	Lick Branch	Elyx Belvins	12-20-08	12-20-08	American	2 yrs	23	Miner.	M	yes	1	1		Explosion of dust	Yes
2225	Lick Branch	Pleas Cannady	12-20-08	12-20-08	American	6 mos	15	Laborer.	M	yes				Explosion of dust	Yes
2226	Lick Branch	J. E. Johnson	12-20-08	12-20-08	American	10 yrs	30	Miner.	M	yes	1	1		Explosion of dust	Yes
2227	Lick Branch	Charles Little	12-20-08	12-20-08	American	8 yrs	23	Laborer.	M	yes				Explosion of dust	Yes
2228	Lick Branch	Willey Little	12-20-08	12-20-08	American	2 yrs	24	Laborer.	M	yes				Explosion of dust	Yes
2229	Lick Branch	John W. Patton	12-20-08	12-20-08	American	3 yrs	22	Laborer.	M	yes	1	1	50 00	Explosion of dust	Yes
2230	Lick Branch	Edward Vaughan	12-20-08	12-20-08	American	2 yrs	25	Miner.	M	yes				Explosion of dust	Yes
2231	Lick Branch	John Brown	12-20-08	12-20-08	Greek	2 yrs	30	Miner.	M	yes			50 00	Explosion of dust	Yes
2232	Lick Branch	George Meaker	12-20-08	12-20-08	Greek	6 yrs	25	Miner.	M	yes			600 00	Explosion of dust	Yes
2233	Lick Branch	Peter Poles	12-20-08	12-20-08	Greek	9 yrs	30	Miner.	M	yes		1		Explosion of dust	Yes
2234	Lick Branch	Searns Buseluke	12-20-08	12-20-08	Russian	1 yr	18	Laborer.	M	yes				Explosion of dust	Yes
2235	Lick Branch	Gregory Borsky	12-20-08	12-20-08	Russian	8 mos	22	Laborer.	M	yes			600 00	Explosion of dust	Yes
2236	Lick Branch	Nicolay Buschuke	12-20-08	12-20-08	Russian	1 yr	20	Laborer.	M	yes			600 00	Explosion of dust	Yes
2237	Lick Branch	Trofia Barsamuk	12-20-08	12-20-08	Russian	3 yrs	30	Laborer.	M	yes	4	7		Explosion of dust	Yes
2238	Lick Branch	Lania Naumuk	12-20-08	12-20-08	Russian	9 yrs	35	Miner.	M	yes	6	7	600 00	Explosion of dust	Yes
2239	Lick Branch	George Parvalie	12-20-08	12-20-08	Russian	6 yrs	40	Laborer.	M	yes			600 00	Explosion of dust	Yes
2240	Keystone	Asenay Parvalie	1-1-09	1-1-09	Negro	1 mo.	17	Driver	M	yes				Mine car	No
2241	Upland	Augustus Johnson	1-5-09	1-5-09	Negro	15 yrs	40	Miner.	M	yes	1	1		Fall of slate	No
2242	Roanoke	Steve Jada	1-11-09	1-11-09	Hungarian	2 yrs	19	Miner.	M	yes				Fall of slate	Yes
2243	Lick Branch	James Ayers	1-12-08	1-12-08	American	3 yrs	35	Laborer.	M	yes				Explosion of dust	Yes
2244	Lick Branch	Daniel Arrington	1-12-08	1-12-08	American	3 yrs	35	Laborer.	M	yes		1		Explosion of dust	Yes
2245	Lick Branch	Albert Abel	1-12-08	1-12-08	American	3 yrs	30	Miner.	M	yes				Explosion of dust	Yes
2246	Lick Branch	J. H. Bolin	1-12-08	1-12-08	American	3 yrs	25	Laborer.	M	yes	12	3		Explosion of dust	Yes
2247	Lick Branch	Floyd Buffalo	1-12-08	1-12-08	American	15 yrs	35	Laborer.	M	yes				Explosion of dust	Yes
2248	Lick Branch	Robert H. Buffalo	1-12-08	1-12-08	American	25 yrs	35	Laborer.	M	yes				Explosion of dust	Yes
2249	Lick Branch	Henry Bales	1-12-08	1-12-08	American	4 yrs	22	Laborer.	M	yes				Explosion of dust	Yes
2250	Lick Branch	Edward R. Collins	1-12-08	1-12-08	American	10 yrs	30	Laborer.	M	yes	2	3		Explosion of dust	Yes
2251	Lick Branch	Stephen C. Clark	1-12-08	1-12-08	American	2 yrs	21	Laborer.	M	yes				Explosion of dust	Yes
2252	Lick Branch	W. E. Eversole	1-12-08	1-12-08	American	2 yrs	21	Laborer.	M	yes				Explosion of dust	Yes
2253	Lick Branch	John Haque	1-12-08	1-12-08	American	2 yrs	25	Laborer.	M	yes		1		Explosion of dust	Yes
2254	Lick Branch	Con. J. Holliday	1-12-08	1-12-08	American	9 yrs	25	Boss Driver	M	yes				Explosion of dust	Yes
2255	Lick Branch	Joseph Jones	1-12-08	1-12-08	American	18 mos	19	Laborer.	M	yes		1		Explosion of dust	Yes
2256	Lick Branch	Ben Johnson	1-12-08	1-12-08	American	3 yrs	51	Laborer.	M	yes				Explosion of dust	Yes
2257	Lick Branch	H. A. Leonard	1-12-08	1-12-08	American	20 yrs	51	Miner.	M	yes	9	10		Explosion of dust	Yes
2258	Lick Branch	Thomas Meyers	1-12-08	1-12-08	American	2 yrs	45	Laborer.	M	yes				Explosion of dust	Yes
2259	Lick Branch	A. P. McDade	1-12-08	1-12-08	American	17 yrs	38	Co. Mine Insp	M	yes	8	9		Explosion of dust	Yes

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Injury.	Date of Death.	Nation-ality.	Length of Experience.	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance Amount.	How Killed.	Invest.
<i>M. Dowell County.</i>															
310	McDowell	Con't.	1-18-09	1-18-09	Italian	2 yrs	28	Miner	x					Fall of slate	Yes
311	U. S. No. 2	Mike Marri	1-18-09	1-18-09	Negro	5 yrs	42	Whisman	M					Electric motor	No
312	Eureka	Dan Hirston	1-19-09	1-19-09	Italian	10 yrs	35	Miner	M	yes	5	6		Fall of coal	Yes
313	U. S. No. 2	Pascal Mashcar	2-4-09	2-4-09	American	12 yrs	28	Miner	M		1	1		Fall of slate	No
314	U. S. No. 2	James Robinson	2-8-09	2-8-09	Polish	8 days	35	Miner	x					Fall of coal	Yes
315	Tidewater	Antonin Popa	2-9-09	2-9-09	Negro	1 day	40	Miner	M					Explosion of pow. (o'f'c)	No
316	U. S. No. 3	W. C. James	2-12-09	2-12-09	Italian	1 yk	24	Laborer	x					Coke mach. (o'f'c)	No
317	Page	Joseph Arnold	2-17-09	2-17-09	Negro	2 yrs	30	Miner	x				100.00	Fall of slate	Yes
318	Stedrick Stephens	Jarvis King	2-18-09	2-18-09	Negro	4 to 5	40	Miner	x				50.00	Fall of coal	Yes
319	Bottom Creek	Tom Smith	3-4-09	3-4-09	Negro	1 day	38	Miner	M	yes		1		Fall of slate	Yes
320	Rodnoke	John Smith	3-8-09	3-8-09	Negro	1 day	19	Laborer	x					Fall of slate	No
321	No. 2	Jess (Robert's) Casey	3-17-09	3-17-09	Negro	5 yrs	17	Trip Rider	x					Coke larry (outside)	No
322	Delta	Robert Walker	3-20-09	3-21-09	Negro	18 mos	27	Miner	x					Miner car	No
323	Berwind No. 1	Joe Reed	3-20-09	3-22-09	Italian	2 mos	23	Trackman	x	yes	6	3		Miner car	No
324	Empire	Frank Costelliz	3-25-09	3-25-09	Romanian	3 yrs	25	Statenman	M					Fall of coal	Yes
325	Shawnee	Vasile Toba	3-25-09	3-25-09	Romanian	4 days	25	Statenman	M					Fall of slate	Yes
326	Shawnee	Thos. Thorne	3-27-09	3-27-09	American	3 yrs	37	Miner	M	yes	3	4		Fall of coal	No
327	Red	Robert L. Kennedy	4-3-09	4-3-09	English	1 mo	17	Laborer	x					Miner car (outside)	No
328	Central Pocahontas	Julian Hyda	4-20-09	4-20-09	Hungarian	2 yrs	42	Miner	M	yes	4	3		Fall of slate	Yes
329	U. S. No. 1	Edward Gilbert	4-21-09	4-21-09	American	5 yrs	18	Driver	M					Miner car	Yes
330	McDowell	A. J. Lile	5-3-09	5-3-09	American	5 yrs	61	Pumper	M	yes	4	3		Fell in raised gauge	No
331	Middle States No. 11	Jos. Garrity	5-13-09	5-14-09	Negro	6 mos	25	Car Greaser	x					Miner car	No
332	Red	James Rouse	5-13-09	5-13-09	Negro	1 yk	25	Miner	x					Fall of slate	Yes
333	King	J. Arthur Nelson	5-14-09	5-14-09	American	8 mos	22	Miner	M	yes		1		Fall of slate	Yes
334	Angle	Jas. Hazas	5-21-09	5-21-09	Hungarian	3 yrs	26	Miner	M				100.00	Fall of coal	Yes
335	Piney	John T. Thompson	5-27-09	5-27-09	Polish	36 yrs	49	Miner	M	yes	4	5		Fall of slate	Yes
336	Peerless	Henry T. Addison	6-7-09	6-13-09	American	2 yrs	42	Statenman	M					Fall of slate	Yes
337	Slick Rock	Jos. Tackett	6-8-09	6-8-09	American	35 yrs	35	Miner	x					Fall of slate	No
338	J. B. B. No. 2	Mike Catton	6-9-09	6-11-09	American	20 yrs	40	Miner	M					Fall of slate	No
339	Maher	Robert Lambert	6-10-09	6-10-09	Hungarian	7 yrs	32	Miner	M	yes	6			Fall of slate	Yes
340	Page	James Woody	6-11-09	6-11-09	Negro	2 yrs	22	Driver	x				50.00	Fall of slate	No
341	Peerless	Nathan Smith	6-21-09	6-21-09	Negro	5 yrs	22	Brakeman	M					Miner car	No
342	Shamokin		6-21-09	6-21-09	Negro	2 yrs	30	Miner	M	yes		2		Fall of slate	Yes
343	Piney														
<i>Logan County.</i>															
344	Monitor	Frank Hensley	6-10-08	6-10-08	American	1 mo	14	Trapper	x					Miner car	Yes

335	U. S. C. & O. Co. No. 45	Arthur Scott	6-28-08	6-28-08	American	2 yrs	20 Loader	Y. Y. Y.	Yes	Electrocuted	No
336	U. S. C. & O. Co. No. 5	Mike Stico	10-23-08	10-23-08	Hungarian	Unk'n	23 Driver	M	Yes	Mine car	No
337	Monitor	Joe Bossia	12-4-08	12-4-08	Hungarian	Unk'n	30 Miner	M	+	Mine car	No
338	Monitor	R. P. Anderson	12-7-08	12-7-08	American	3 yrs	29 Miner	Y. Y. Y.	Yes	Electric motor	No
339	U. S. C. & O. Co. No. 3	Harry Honaker	12-30-08	12-30-08	American	7 day's	17 Brakeman	Y. Y. Y.	Yes	Electrocuted	No
340	U. S. C. & O. Co. No. 2	Louis Thacketa	1-6-09	1-6-09	Romanian	Unk'n	30 Loader	M	Yes	Fall of slate	Yes
351	Ethel	Robert Johnson	4-19-09	4-19-09	Negro	1 mo	18 Laborer	Y. Y. Y.	Yes	Fell from mine car	Yes
352	Monitor	Joe Hensley	6-10-09	6-10-09	American	2 yrs	18 Driver	Y. Y. Y.	Yes		
<i>Mingo County.</i>											
353	Grapevine	Marcus L. Milen	7-14-08	7-14-08	American	6 yrs	21 Miner	M	Yes	Mine car	No
354	Rutherford	Gallard Carraway	8-8-08	8-8-08	American	7 yrs	18 Miner	Y	Yes	Runaway on incline (outside)	No
355	Rutherford	Sam Carraway	8-8-08	8-8-08	American	9 yrs	20 Miner	Y	Yes	Runaway on incline (outside)	No
356	Rutherford	Somo Ronal	8-8-08	8-8-08	Italian	Unk'n	32 Miner	M	Yes	Runaway on incline (outside)	No
357	Margaret No. 1	Harve Blankenship	9-15-08	9-15-08	American	4 yrs	33 Miner	M	Yes	Fall of coal	No
358	Red Jacket	Wasil Popif	9-22-08	9-22-08	Bohemian	1 yr	34 Miner	Y. Y. Y.	Yes	Fall of slate	No
359	Rutherford	Jas. Williams	12-8-08	12-8-08	American	5 yrs	21 Miner	Y. Y. Y.	Yes	Fall of slate	No
360	Glen Alum	Toney Praco	12-26-08	12-26-08	Italian	Unk'n	35 Miner	Y. Y. Y.	Yes	Mine car (outside)	No
361	Thacker No. 3	W. S. McClure	2-3-09	2-3-09	American	15 yrs	40 Engineer	M	+	Mine car (outside)	No
362	Chattahoo	Robert Anderson	5-13-09	5-13-09	American	11 mos	15 Trapper	Y. Y. Y.	Yes	Fall of roof	No
363	Chattahoo	Benny Sernal	5-19-09	5-19-09	Italian	1 yr	23 Miner	Y. Y. Y.	Yes	Fall of slate	No
364	Glen Alum No. 1	Edward Fleming	6-28-09	6-28-09	American	Unk'n	19 Laborer	Y. Y. Y.	Yes	Fall of slate	No

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
1	<i>Brooke County.</i> Beech Bottom	Elmer Hough	10-22-08	American	Unk'n		Gen'l Mgr	Mine cars (outside)	Arm broken.
2	<i>Hancock County.</i> Marquet No. 4	John Marcovich	7-17-08	Hungari'n	Unk'n	30	Mch. Helper	Mining machine	Leg broken, necessitating amput'n
3	Marquet No. 5	David Gray	8-15-08	American	Unk'n	45	Miner	Fall of slate	Sprained ankle.
4	Marquet No. 4	John Rush	1-4-09	Slavish	5 yrs	25	Driver	Mine cars	Leg crushed, body bruised.
5	Marquet No. 5	J. C. Stanley	7-17-09	American	7 yrs	56	Miner	Fall of slate	Ribs broken.
6	<i>Maryland County.</i> Chatham No. 1	Frank Milcovich	7-8-08	Austrian	3 mos	37	Mch. Helper	Mining machine	Broken finger.
7	Harvey	Peter Kava	7-18-08	Italian	2 yrs	37	Driver	Mine cars	Bruised hip and arm.
8	Penns	Chas. Shrinka	7-20-08	Slavish	10 mos	37	Miner	Fall of slate	Left leg fractured.
9	Monongah No. 8	Nick Palumbo	7-21-08	Italian	3 mos	18	Brakeman	Mine cars	Small finger of right hand off.
10	Monongah No. 8	Archie Bise	7-21-08	American	4 mos	20	Motorman	Mine cars	Small & 3rd finger of left h'd off.
11	Monongah No. 8	Rock Valled	7-23-08	Italian	5 mos	45	Miner	Fall of slate	Bones of right leg broken.
12	New England	Geo. Gabriell	7-27-08	Greek	8 mos	20	Loader	Mine cars	Arm and shoulder blade fr'ctd.
13	Penns	Wm. Riegels	8-8-08	American	3 yrs	23	Trackman	Fall of slate	H'd cut right leg cr's'd bel. knee
14	Parker Run	Wm. D. Martin	8-10-08	American	2 yrs	45	Miner	Premature explosion	Burned about face & hands.
15	Middleton	Chas. E. Leat	8-14-08	American	2 yrs	42	Mch. Helper	Mining machine	Left ankle fractured
16	New England	Laurence Hamilton	8-12-08	American	5 mos	20	Loader	Fall of coal	Finger mashed.
17	Federal	Sam Bucher	9-3-08	Slavish	Unk'n	37	Driver	Mine cars	Rib fractured.
18	Federal	Miki Kosah	9-10-08	Slavish	Unk'n	25	Driver	Mine cars	Fracture of right rib.
19	Hutchinson	Earl Bryan	9-22-08	American	5 yrs	20	Driver	Mine cars	Fracture of right leg.
20	Chatham No. 1	John Whinnie, Jr	9-23-08	American	3 mos	16	Trapper	Mine cars	Broken thigh.
21	Chatham No. 1	Evan Starchovich	9-28-08	Austrian	3 yrs	21	Driver	Fall of coal	Body squeezed and bruised.
22	Chatham No. 1	Tom Kasich	10-15-08	Austrian	Unk'n	29	Laborer	Fall of slate	Bruised hips and legs.
23	Monongah No. 8	Thos. Wichter	10-22-08	Negro	Unk'n	24	Laborer	Mine cars	Right hand bruised.
24	New England	Frank Nicolette	10-22-08	Italian	3 yrs	22	Slaterman	Fall of slate	Fracture of left knee.
25	Chatham No. 1	Guzzi Karsouage	11-30-08	Austrian	2 yrs	35	Miner	Fall of coal	Broken Ankle.
26	Monongah No. 8	Morar Mona	12-8-08	Hungari'n	2 mos	27	Miner	Mine cars	Bruises on back, side and chest.
27	Monongah No. 6	Donato Ceresia	12-12-08	Italian	Unk'n	24	Miner	Fall of slate	Pelvic bone br'kn, thigh inter'y
28	Chatham No. 1	Dominic Fomul	12-31-08	Italian	2 yrs	25	Cager	Mine cars	Squeezed leg.
29	Chatham No. 1	Pavel Omnitch	12-31-08	Polish	2 mos	30	Loader	Fall of coal	Bruised body.
30	Shaver	Alex. Taylor	12-31-08	Negro	1 yrs	23	Driver	Fall of slate	Right thigh fractured.
31	Montana	Chas. Johnson	1-2-09	American	5 yrs	60	Trapper	Mine cars	Right leg off crushed.
32	Monongah No. 6	Joe Swidelski	1-11-09	Polish	4 mos	60	Trapper	Mine cars	Right leg off below knee.
33	Chatham No. 1	Ignatius Radisky	1-19-09	Polish	10 yrs	30	Miner	Fall of coal	Leg fractured.

34	Shaft	James W. Carr	1-21-00	American	18 yrs	57	Trackman	Caught by haulage rope	Ankle dislocated.
35	Chatham No. 1	Geo. Shadbal	1-21-00	Austrian	10 yrs	30	Miner	Fall of coal	Right leg broken.
36	New England	Mike Besner	1-23-00	Russian	2 yrs	30	Mich. Runner	Mining mach. (outside)	Leg fractured, ankle dislocated.
37	Stadford	John Floyd	1-25-00	American	5 yrs	45	Trimmer	Fall of R. R. car (outside)	Scalp wound, leg fractured.
38	Chatham No. 1	John Spare	1-25-00	Austrian	1 yr	30	Miner	Fall of slate	Broken leg.
39	New England	Liberator Conti	1-26-00	Italian	Unk'n	19	Loader	Mine cars	Right arm lacerated.
40	Murray	Andy Klubuck	1-28-00	Slavish	Unk'n	35	Miner	Fall of slate	Left leg broken.
41	Montana	Thomas Bowyer	1-29-00	American	20 yrs	48	Foreman	Mine cars	Right arm broken.
42	Federal	Glen Hobbs	1-29-00	American	5 mos	23	Driver	Mine cars	Lacer'd hand, squ'd hips & chest
43	Federal	Andy Bechtig	3-6-00	Slavish	Unk'n	25	Loader	Fall of slate	Fracture of left leg.
44	Federal	Andy Echer	3-6-00	Slavish	Unk'n	25	Loader	Fall of slate	Fracture of left leg.
45	Highland	Savotte De Maria	4-13-00	Italian	2 yrs	28	Miner	Flying coal	Skull compressed.
46	Chifton	Toney Serian	4-27-00	Italian	14 yrs	54	Loader	Fall of slate	Left hand crushed.
47	Monongah No. 8	Waleuty Druzink	4-28-00	Polish	Unk'n	35	Miner	Fall of coal	Both legs fractured, head cut.
48	Federal	Squire Vincent	4-29-00	American	Unk'n	41	Loader	Thrown from cage	Leg cut.
49	Federal	Classey Deems	5-1-00	American	Unk'n	19	Motorman	Electric shock	Burned left hand.
50	New England	Dave Huffman	5-3-00	American	Unk'n	48	Miner	Flying coal	Cuts on head and above eyes.
51	Federal	Levis Bloom	5-3-00	Polish	Unk'n	38	Trackman	Caught on cage	Lacerated hand.
52	Harry B	Frank Zeebus	5-11-00	American	15 yrs	35	Miner	Fall of coal	Sprained ankle, bruised leg.
53	Chatham No. 1	John Mocktick	5-13-00	Russian	1 yr	21	Miner	Fall of slate	Internal injuries.
54	Federal	John Mocktick	5-14-00	Polish	Unk'n	21	Driver	Mine cars	Contusion of right leg and foot.
55	Federal	W. W. Wilson	5-15-00	Unknown	Unk'n	26		Engine machinery	Right hand mashed.
56	Monongah No. 2	Joe Marks	5-25-00	Italian	5 yrs	25	Miner	Fall of coal	Comp. fracture of left leg.
57	Shaft	Clarence Sapp	5-26-00	American	7 yrs	26	Pumper	Mine pump	Left arm and shoulder torn.
58	New England	Joseph Williams	6-3-00	Assyrian	Unk'n	27	Miner	Fall of slate	Cut on head, bruised back.
59	Marshall County	Joseph Mozzin	8-3-08	Italian	no yrs	45	Miner	Fall of coal	Bones of left leg broken.
60	Harrison County	John Chambers	7-8-08	American	11 mos	20	Driver	Fall of slate	Back mashed, spinal cord br'ken
61	Enterprise	Joe Zorsky	7-18-08	Polish	5 yrs	23	Miner	Fall of coal	Right leg cut below knee.
62	New Chatham	Frank Moroski	8-4-08	Polish	2 yrs	26	Miner	Premature explosion	Face, neck and hands burned.
63	Reynoldsville	Frank Kugosky	8-5-08	Hungarian	4 mos	30	Miner	Fall of coal	Comp. fracture bones of left leg, cut on head.
64	Hunham	Felix Chugath	8-13-08	Italian	2 yrs	42	Miner	Fall of coal	Bruised and sprained ankle.
65	Pitcairn	Carl Ross	8-25-08	American	7 yrs	23	Motorman	Fall of slate	Dislocation of hip.
66	Dola	D. C. Sandy	8-31-08	American	2 yrs	24	Miner	Fall of coal	Leg broken just above ankle.
67	Pitcairn	Joseph Thomas	9-3-08	Assyrian	1 yr	26	Miner	Fall of coal	Broken jaw, head bruised.
68	Marshall	Joe E. Thomas	9-7-08	American	6 yrs	27	Miner	Fall of slate	Right arm broken.
69	Pinnickmick	Joe Hla	9-7-08	Assyrian	5 mos	20	Miner	Fall of coal	Instep of right foot mashed.
70	Pinnickmick	Charles Draln	9-14-08	American	6 mos	19	Loader	Fall of coal	Right leg lacerated.
71	Pinnickmick	Mose Lipkin	9-14-08	Russian	2 mos	27	Miner	Fall of coal	Left collar bone broken.
72	Columbia	Jim Melowlas	9-18-08	Greek	10 mos	27	Miner	Fall of slate	Right shoulder and leg bruised.
73	Pinnickmick	Andy Cursulovith	10-2-08	Austrian	1 yr	42	Trimmer	Fell off R. R. car	Comp. frac. of left arm at wrist.
74	Frie	John Latta	10-4-08	Polish	2 yrs	38	Loader	Fall of slate	Crushed through chest.
75	Frie	John Frolo	10-5-08	Italian	4 yrs	39	Miner	Fall of coal	Scalp wound
76	Girard No. 2	Arthur Stires	10-14-08	American	4 yrs	18	Rope Rider	Mine cars	Cut & bruised about head & face.
77	Fulmer No. 1	E. A. Simons	10-19-08	American	6 yrs	18	Driver	Fall of slate	Head cut, back sprained.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
28	Marion County Gillard No. 2	Con'l. Samuel Yockwine	10-20-08	Italian	4 yrs	21	Miner	Fall of slate	Hand crushed.
29	Erie	D. W. Lee	10-20-08	American	10 yrs	22	Miner	Fall of slate	Broken leg.
30	Gillard No. 2	Brooks, Michael	10-31-08	American	1 mo	18	Driver	Mine cars	Bruiised leg.
31	Gypsy	Sam Fragonette	11-2-08	Italian	2 yrs	23	Leader	Mine cars	Left leg fractured above ankle.
32	Cork	John McGuire	11-23-08	American	10 yrs	23	Miner	Fall of slate	Loss of four toes, foot bruised.
33	Waldo No. 1	Ellis Thomas	11-25-08	American	3 yrs	25	Miner	Mine cars	Bruiised abdominal muscles.
34	Harold	Henry Dickerson	12-10-08	Negro	10 yrs	43	Miner	Flying coal	Cuts about face and above eyes.
35	Gillard	Joseph Yomo	12-10-08	Italian	8 mos	14	Signal Boy	Fell off trolley	Broken arm and fractured skull (outside).
36	Pineckinnick	W. C. Jones	12-28-08	American	2 yrs	23	Driver	Mine cars	Right ankle and instep bruised.
37	Ellen	Mont C. Harris	12-21-08	Negro	7 yrs	28	Miner	Premature explosion	Cut & bru's d head, n'k & hands.
38	Ellen	Leaman Turner	12-21-08	Negro	8 yrs	43	Miner	Premature explosion	Head, neck and body burned.
39	Solon	Tidder Arizona	12-23-08	Italian	3 yrs	25	Driver	Mine cars	Collar bone broken.
40	O'Neil	Peter Arizona	12-23-08	Italian	4 yrs	24	Scraper	Fall of coal	Frac. collar bone, cuts on head.
41	Marshall	Steve Parkowitz	12-28-08	Austrian	4 yrs	22	Miner	Mine cars	Bruiised face, hands and spine.
42	Hero	James S. Wright	1-6-09	English	9 yrs	37	Miner	Explosion dynamite caps	Laceration of right hand, across- slating amputation (outside).
43	Coaling Station	E. W. Leeson	1-12-09	American	5 yrs	20	Miner	Fall of slate	Fract'd left leg; injury to side.
44	Wetland No. 1	Offidiana Azzareno	2-17-09	Italian	2 yrs	21	Miner	Premature explosion	Face burned.
45	Fall Run	John Fozgal	2-18-09	Italian	2 yrs	20	Driver	Mine cars	Right arm and leg broken, both lungs punctured.
46	Futurer No. 1	Walter Anderson	2-20-09	Danish	10 yrs	23	Miner	Fall of slate	Broken leg.
47	Enterprise	Frank Pavolle	2-22-09	Hungarian	10 yrs	23	Miner	Fall of slate	Comp. fracture of leg, bruised through breast and abdomen.
48	Meadowbrook	L. M. Snider	3-1-09	American	5 yrs	28	M. Car Comp'n	Mine cars	Crushed through ribs.
49	West Fork	G. W. Thompson	3-4-09	American	15 yrs	37	Miner	Mine cars	Broken nose, cuts above eyes.
50	Fairmore	Charles Morkley	3-5-09	American	6 mos	24	Trippleman	Mine cars	Crushed foot (outside).
51	Perry	Frank Fuzzan	3-10-09	Italian	3 yrs	24	Laborer	Mining machinery	Right leg broken.
52	Pitcairn	August Skarnulis	3-11-09	Lithuanian	8 yrs	22	Miner	Mine cars	One finger broken.
53	Gillard No. 2	Oral Robinson	3-17-09	American	3 mos	25	Driver	Mine cars	Washed leg broken, one lacerat'd
54	Dunham	Paul Oliverio	3-18-09	Italian	6 yrs	26	Miner	Fall of slate	Right leg broken, left hand bruised, face skinned.
55	Enterprise	John Stacho	3-25-09	Polish	10 yrs	22	Leader	Flying coal	Eye injured.
56	New Chiefton	Sam Swans	4-25-09	American	10 yrs	30	Trackman	Mine cars	Fracture of right hand off.
57	Miller No. 1	Joseph McCloy	4-3-09	American	15 yrs	36	Track Helper	Fall of slate	Bruiised neck and right ankle.
58	Gillard No. 1	Thos. Isabelle	4-7-09	Italian	9 yrs	30	Miner	Fall of coal	Cuts on head & face, right foot mashed, back scraped.

109	O'Neill	Asa Pierce	4-13-00	American	2 mos.	16	Trip Rider	Mine cars	Comp'd fracture of two fingers (outside).
110	Hero	Inther Lindsay	4-30-00	English	2 yrs	16	Driver	Mine cars	Left arm broken.
111	Pinnicknick	Mike Obrink	5-7-00	Slavish	1 yr	21	Driver	Mine cars	Right foot bruised.
112	Hutchinson No. 2	Frank Krivich	5-7-00	Austrian	Unk'n	20	Miner	Fall of coal	Contusion of scalp, five inches in length.
113	Enterprise	Toney Olivio	5-10-00	Italian	15 mos	16	Trapper	Mine cars	Fractured shoulder blade.
114	Grasselli	Samuel Long	5-13-00	Italian	7 yrs	40	Miner	Mine cars	Arm broken between elbow and wrist.
115	Pooz	Lazo Gaverno	5-14-00	Slavish	6 mos	25	Laborer	Fall of coal	Left leg broken.
116	Erie	Joe Henry	5-18-00	Syrian	2 yrs	25	Laborer	Flying slate	Scalp wound.
117	Columbia	Steve Kanopko	5-25-00	Slavish	3 mos	18	Miner	Fall of coal	Thumb on right hand broken.
118	Viropla	Pasko Betnik	5-25-00	Italian	Unk'n	34	Miner	Fall of slate	Two wounds on leg.
119	Columbia	Steve La Hosky	6-2-00	Slavish	4 yrs	23	Driver	Thrown from horse	Body squazed, right arm broken.
120	O'Neill	Tom Sacco	6-5-00	Italian	6 mos	23	Miner	Mine cars	Right shoulder squeezed, cuts on forehead.
121	Meadowbrook	Joe Kovacs	6-7-00	Hungari'n	5 mos	28	Miner	Fall of slate	Bruised through hips.
122	Perry	Tony Gazella	6-8-00	German	2 yrs	19	Driver	Caught betw'n tail chain and bumper	Index finger right hand smashed.
123	Erie	Claud Martin	6-8-00	American	5 yrs	24	Driver	Mine cars	Foot squeezed.
124	Erie	Frank Ross	6-11-00	Italian	2 yrs	22	Driver	Mine cars	Squeezed through chest.
125	National	John Degarda	6-15-00	Polish	4 yrs	24	Miner	Fall of slate	Fractured leg.
126	Pinnicknick	Frank Egi	6-28-00	Hungari'n	Unk'n	30	Driver	Mine cars	Squeezed through hips & chest.
127	Dunham	E. D. Way	6-28-00	American	9 yrs	37	Miner	Fall of coal	Cut on head & back, hip bru'ed.
<i>Upshur County.</i>									
128	Red Rock	John Noon	7-21-08	American	3 yrs	19	Brakeman	Mine cars	Foot mashed, one toe broken.
129	Red Rock	Frank Chickpea	8-13-08	Italian	Unk'n		Miner	Flying coal	Face cut.
130	Red Rock	Cyrus W. Eckes	8-8-00	American	3 yrs	25	Motorman	Electric motor	Both limbs broken and mashed.
131	Red Rock	Robt. Labug, Jr	5-2-00	American	15 yrs	30	Superintendent	Mining machinery	Left leg mashed, necessitating amputation.
132	Century No. 1	Joe Grizanti	7-10-08	Italian	1 yr	44	Miner	Fall of slate	Right leg fractured.
133	Century No. 1	Eugene Paldos	7-13-08	Italian	4 mos	19	Miner	Explosion of shot	Laceration of right hand, loss of thumb, lacerat'n of right thigh.
134	Century No. 1	Antonio Giorgi	7-23-08	Italian	Unk'n		Miner	Mine cars	Fracture of clavicle.
135	Century No. 1	Joe Waltas	8-21-08	Lithuan'n	3 mos	23	Driver	Mining machinery	Laceration of left thumb, necessitating amputation.
136	Century No. 1	Peter Stazavitch	9-10-08	Lithuan'n	5 wks	30	Miner	Fall of slate	Bruised on back and right leg.
137	Weaver No. 3	T. J. Jefferies	10-2-08	American	10 yrs	35	Miner	Mine cars	Wrenched knee.
138	Century No. 1	Zedra Querrick	10-2-08	Italian	2 wks	30	Miner	Fall of slate	Left leg bruised and fractured, face lacerated.
139	Century No. 2	Nick Vetr	10-5-08	Italian	4 yrs	27	Miner	Mine cars	Fractured finger on right hand.
140	Century No. 1	George Deavers	10-5-08	American	3 yrs	31	Mich. runner	Mining machinery	Contusion of toe on right foot.
141	Century No. 2	Joe Detrick	10-10-08	Italian	3 yrs	34	Miner	Flying coal	Laceration of eye.
142	Century No. 1	Joe Munia	10-23-08	Italian	5 yrs	32	Miner	Mine cars	Bruises of ribs.
143	Century No. 1	George Peoples	12-2-08	Lithuan'n	8 yrs	48	Miner	Mining machinery	Laceration of right leg.
144	Century No. 1	John Bagdonovich	12-18-08	Lithuan'n	2 yrs	31	Mich. runner	Mining machinery	Thumb mashed.
145	Century No. 2	James Welsh	1-13-09	English	2 yrs	43	Miner	Fall of slate	Fracture of right leg, spr'd ank'e

Barbour County.

132 Century No. 1
133 Century No. 1

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Barbour County.</i>									
146	Century No. 1	Con'ly.							
147	Century No. 1	C. H. Wolf	2-6-00	American	25 yrs	43	Miner	Struck by axe	Lacerated knee.
148	Century No. 2	Angelo Gavanna	2-13-00	Italian	1 mo	41	Miner	Fall of slate	Bruised shoulder, ankles spr'ed.
149	Century No. 1	Guoel Gresco	4-21-00	Italian	11 mo	26	Leader	Fall of slate	Fracture of right leg.
150	Century No. 1	Guoel Zolinski	5-10-00	Polish	2 yrs	33	Miner	Fall of slate	Bruised shoulders, back & thigh.
151	Berryburg	Tony Bow	5-19-00	Italian	1 yr	19	Leader	Fall of coal	Two fingers lacerated.
<i>Monongalia County.</i>									
152	Beckwood	Henry Poling	2-17-08	American	5 yrs	21	Brakeman	Electric motor	Toe cut off of left foot.
153	E. C. & C. Co. No. 5	Clyde Malone	8-15-08	American	6 yrs	25	Miner	Fall of rock	Foot squeezed, face & body bru'd
154	E. C. & C. Co. No. 5	Henry Robinson	10-18-08	American	2 yrs	20	Motorman	Putting out fire (out side)	Burned on hands and limbs.
155	Richard No. 1	C. H. Hagadorn	11-7-08	American	1 yr	20	Laborer	Mine cars	Injuries to back and legs.
156	Richard No. 1	Tony Ramolla	10-5-08	Italian	16 mos	41	Miner	Mine cars	Broken rib.
157	Grant	Charles Lamban	1-25-09	American	10 yrs	45	Miner	Fall of slate	Flesh wounds.
158	Deckers Creek	Jog. Rossir	3-2-00	Italian	1 yr	27	Miner	Mine cars	Injury to leg.
159	Richard No. 1	Paul Dominica	3-13-00	American	3 yrs	28	Oxen charger	Struck by tarry (out side)	Broken leg.
160	Deckers Creek	George Raber	3-17-00	Italian	1 yr	31	Miner	Mine cars	Comp. fracture of right leg.
161	E. C. & C. Co. No. 5	Martin Mack	5-14-00	Hungarian	21 yrs	58	Miner	Electric motor (out side)	Cuts on face.
162	Deckers Creek	Anton Evansky	5-18-00	Lithuanian	10 yrs	40	Miner	Electric motor (out side)	Collar bone and shoulder blade broken.
<i>Preston County.</i>									
163	Kingwood	Dominick Burt	7-1-08	Italian	6 yrs	19	Miner	Fall of slate	Broken arm.
164	Bretz No. 2	Joe Marteen	7-1-08	Italian	1 yr	33	Laborer	Hot ashes (out side)	Slightly bruised.
165	Victoria No. 2	John Hendricks	7-1-08	Polish	9 yrs	33	Miner	Fall of coal	Contusion above knee.
166	Victoria No. 2	Arnold Andrews	7-31-08	American	2 yrs	24	Miner	Fall of coal	Contusion below knee.
167	Bretz No. 2	Sabatonja Slesish	9-22-08	Italian	3 yrs	27	Miner	Mine cars	Middle ear ruptured, concussion of brain.
168	Vulcan	L. O. Tallot	9-23-08	American	3 yrs	31	Miner	Fall of slate	Head cut, bruised hips.
169	Bretz	Lewis Kiddy	9-23-08	Romanian	2 yrs	28	Laborer	Mine cars	Bruised ankle.
170	Bretz No. 2	Emegello Tulssa	10-27-08	Italian	2 yrs	27	Miner	Powder explosion	Burned face and arms.
171	Bretz No. 2	Marshall Colburn	10-28-08	American	2 yrs	23	Laborer	Electric motor	Head injured.
172	Kingwood No. 4	Blain Colburn	11-17-08	American	1 yrs	23	Motorman	Mine cars (out side)	Head and breast bruised.
173	Cascade	Nick Simonovich	12-11-08	Hungarian	2 yrs	33	Miner	Fall of slate	Bruised back, sprained ankle.
174	Hollowville	Lee Viles	12-17-08	American	9 yrs	23	Miner	Fall of coal	Spine-injured, squeezed thru hips
175	Bretz No. 3	Clas. Sterling	12-22-08	American	1 mo	20	Laborer	Mine cars	Foot bruised.
176	Kingwood No. 4	Alex. Simpson	1-14-09	Scottish	45 yrs	60	Miner	Flying slate	Eye injured.

177	Irona	Lucian Albright	1-2-00	American	15 mos	39	Car oiler	Fell off trolley (outside).	Internal injuries.
178	Austin No. 1	Wm. J. Maxwell	2-15-00	American	4 yrs	22	Driver	Mine cars	Back injured.
179	Tunnelton No. 2	George Long	2-15-00	American	10 yrs	24	Cutter	Fall of coal	Back injured.
180	Vulcan	John Aponie	3-19-00	Russian	2 yrs	31	Miner	Fall of slate	Arm broken, leg mashed.
181	Austen No. 1	Jno. Ross	3-19-00	American	18 yrs	31	Miner	Fall of slate	Back bruised.
182	Austen No. 1	John Valente	3-30-00	Italian	2 yrs	19	Miner	Fall of slate	Forehead cut.
183	Kingwood No. 4	John Milone	4-1-00	Italian	3 yrs	30	Miner	Flying coal	Eye injured.
184	Kingwood No. 4	Tony Phillips	4-10-00	Italian	22 yrs	32	Miner	Fall of slate	Finger to spine, cut south'd & sh'd'r
185	Tunnelton	A. J. Johnson	4-16-00	American	20 yrs	32	Miner	Mine cars	Toe mashed.
186	Tunnelton	Charles Mitchell	4-23-00	American	11 yrs	24	Miner	Mine cars	Ankle sprained.
187	Irona	William Zubery	5-8-00	Polish	10 yrs	33	Miner	Fall of coal	Fractured knee.
188	Kingwood No. 4	Tony Lazzare	5-13-00	Italian	3 yrs	23	Miner	Fall of slate	Thigh broken, knee dislocated.
189	Austen No. 1	Thomas Paddy	5-14-00	American	24 yrs	47	Mine engineer	Caught by boiler (outside)	One toe broken, one mashed.
190	Bretz No. 2	John Moran	5-20-00	Italian	4 mos	25	Laborer		
<i>Taylor County.</i>									
191	Rosemont	Charles Stanko	2-1-08	Slavish	Unk'n	19	Miner	Fall of coal	Contusion of hips.
192	Rosemont	Mathias Russell	1-19-00	American	25 yrs	38	Miner	Fall of coal	Bruises on back.
193	Rosemont	A. A. Jones	2-21-00	American	25 yrs	38	Fireman	Electric motor (outside)	Foot bruised, necessitating amputation of three toes.
194	Rosemont	Charles Patro	2-24-00	Slavish	8 yrs	35	Miner	Fall of slate	Right leg broken.
<i>Grant County.</i>									
195	Henry No. 22	Tony Patch	7-9-08	Italian	1 yr	32	Miner	Fall of coal	Ankles sprained, back bruised.
196	Henry No. 22	George Harvick	8-16-08	Polish	6 mos	22	Miner	Electric shock	Hands and shoulder burned.
197	Henry No. 22	Nick Watovic	10-10-08	Monte g'n	2 yrs	36	Miner	Fall of coal	Knee bruised.
198	Henry No. 22	Tony Rodosky	11-24-08	Lithuan'n	5 yrs	30	Miner	Premature explosion	Fracture of skull and brain.
199	Henry No. 22	Everett Tony	12-23-08	Italian	Unk'n	20	Brakeman	Mine cars	Left leg broken.
200	Henry No. 22	J. P. Boring	2-13-00	Slavish	Unk'n	16	Driver	Electric motor	Foot bruised.
201	Henry No. 22	Joe Geraski	2-13-00	Slavish	Unk'n	16	Driver	Mine cars	Left foot mashed.
202	Henry No. 22	Paul Terant	5-14-00	Italian	5 yrs	27	Driver	Mine cars	Hand mashed.
<i>Mineral County.</i>									
203	Blaine	Andrew Syalski	10-2-08	Greek	Unk'n	19	Laborer	Runover by R.R. car (o.s.)	Loss of foot.
204	Gleason No. 2	William McManus	11-21-08	American	6 mos	19	Miner	Fall of slate	Leg broken.
<i>Randolph County.</i>									
205	Weaver No. 2	Peter Baise	10-31-08	Italian	4 yrs	28	Miner	Fall of slate	Head cut, back sprained.
206	Weaver No. 1	James Tenney	11-9-08	American	3 yrs	17	Coupler	Caught bet. rope & wh'l	Hand fractured.
207	Weaver No. 1	Otto Simous	11-27-08	American	4 yrs	18	Driver	Mine cars	Foot mashed, two toes off.
208	Weaver No. 1	Thomas Tenney	12-17-08	American	1 wk	16	Chaser	Mine cars	Arm broken.
209	Weaver No. 2	Chas. Brady	12-18-08	American	8 yrs	30	Miner	Fall of coal	Leg crushed.
210	Weaver No. 1	T. G. Fry	1-25-00	American	5 yrs	22	Coupler	Mine cars	Leg bruised.
211	Weaver No. 2	Chas. Finch	2-23-00	American	2 yrs	16	Leader	Mine cars	Hand mashed.
212	Coalton No. 1	Raymond Taylor	4-7-00	American	3 yrs	19	Brakeman	Mine cars	One leg broken, injured int'nly
213	Weaver No. 1	Ballas Moore	5-12-00	American	2 yrs	15	Leader	Mine cars	Leg wrenched.
<i>Tucker County.</i>									
214	Coketon No. 26	Frank Benenich	7-11-08	Austrian	3 yrs	32	Miner	Fall of slate	Jaw broken.
215	Thomas No. 25	Adam Kesses	7-15-08	Lithuan'n	1 yr	20	Driver	Mine cars	Foot squeezed.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Tucker County—</i>									
216	Coketon No. 36	Con't.							
217	Thomas No. 23	Matt Good	7-23-08	American	7 yrs	35	Miner	Mine cars	Finger mashed.
218	Coketon No. 33	Pasqual Riche	7-31-08	Italian	8 mos	20	Driver	Mine cars (outside)	Foot injured.
219	Thomas No. 36	Const. Carnan	8-17-08	Italian	3 yrs	21	Miner	Fall of slate	Right leg broken, cut on head.
220	Coketon No. 25	Mathew Maliska	9-14-08	Lithuanian	1 yk	23	Miner	Fall of slate	Ankle and shoulder bruised.
221	Thomas No. 23	E. R. Manley	9-16-08	American	1 yk	22	Laborer	Motor axle (outside)	Toe mashed.
222	Thomas No. 34	Oscar Pace	9-24-08	American	15 yrs	43	Trackman	Caught betw'n cross-bar and motor (out-side)	Back sprained.
223	Thomas No. 34	L. C. McCauley	9-24-08	American	5 yrs	29	Laborer	Roll of trolley wire	Shoulder bruised.
224	Coketon No. 36	Joseph Paterno	9-30-08	Italian	2 yrs	29	Miner	Premature explosion	Face and eyes cut.
225	Coketon No. 35	Angelo Pothola	10-5-08	Italian	Unk'n	30	Fireman	St'm pipe burst, (out 'de)	Hands and arms scalded.
226	Coketon No. 36	Howard Lewis	10-10-08	American	2 yrs	23	Driver	Mine cars	Two toes of left foot mashed.
227	Coketon No. 26	Mike Vendelosky	10-21-08	Austrian	1 yr	19	Driver	Mine cars	Index finger of right hand off.
228	Coketon No. 36	James Torelli	10-23-08	Italian	10 mos	40	Miner	Fall of slate	Leg bruised.
229	Thomas No. 36	Fena Carmancha	10-24-08	Italian	3 yrs	31	Miner	Mine cars	Squeezed through chest.
230	Coketon No. 26	John Farley	11-7-08	American	3 yrs	23	Brakeman	Mine cars	Right foot mashed.
231	Thomas No. 34	Frank Scaportie	11-18-08	Gravish	9 mos	22	Miner	Mine cars	Right foot mashed.
232	Thomas No. 33	Joe Muscatomlis	11-27-08	Slavish	1 yr	18	Driver	Kicked by mule	Brused face.
233	Thomas No. 34	Ernest Rose	12-10-08	American	2 mos	22	Driver	Mine cars	Finger of right hand mashed.
234	Thomas No. 33	Herbert Edburn	12-28-08	American	2 yrs	17	Driver	Mine cars	Both legs bruised.
235	Coketon No. 35	John Corralis	1-9-09	Livitch	2 yrs	38	Miner	Fall of coal	Brused shoulder, ankle and side.
236	Coketon No. 36	Oscar Haas	1-9-09	American	4 yrs	18	Brakeman	Fall of prop.	Left foot bruised.
237	Thomas No. 34	George Quovatis	1-9-09	Russian	8 mos	22	Miner	Fall of slate	Face and head cut.
238	Thomas No. 34	Howard Lewis	1-15-09	Gravish	4 yrs	24	Driver	Fall of slate	Neck and shoulder bruised.
239	Thomas No. 34	Joe Slogar	1-15-09	Gravish	2 yrs	24	Miner	Mine cars	Arms and legs bruised.
240	Thomas No. 34	Amelia Plancia	1-15-09	Slavish	Unk'n	20	Miner	Fall of slate	Left leg broken.
241	Coketon No. 35	Joseph Hoosier	1-16-09	Gravish	2 yrs	25	Miner	Fall of slate	Face and head cut.
242	Bouglas No. 5	Wade McGuffin	1-20-09	American	2 yrs	22	Driver	Mine cars	Left thigh bruised.
243	Thomas No. 35	Salvador Wotara	2-10-09	Italian	4 yrs	40	Miner	Fall of coal	Right ankle bruised.
244	Thomas No. 33	John Smutz	2-16-09	Lithuanian	1 yr	25	Miner	Mine cars	Brused chest.
245	Thomas No. 34	John Karonis	2-17-09	Livitch	3 yrs	19	Driver	Mine cars	Ankle sprained.
246	Thomas No. 34	Clinton Pierce	3-18-09	American	1 yr	15	Chaser	Mine cars	Foot and ankle injured.
247	Thomas No. 35	Dan Miller	3-18-09	Lithuanian	3 yrs	20	Miner	Fall of coal	Right leg crushed above knee.
248	Coketon No. 36	Joseph Ocroslick	4-1-09	Austrian	3 yrs	24	Miner	Fall of slate	Leg broken, head cut.
249	Coketon No. 36	Sam Salvan	4-3-09	Italian	4 mos	42	Miner	Fall of coal	Ankle broken.
250	Coketon No. 36	Joe Marotta	4-3-09	Italian	6 mos	42	Miner	Fall of coal	Back and foot injured.
251	Thomas No. 36	Mike Latsko	4-28-09	Austrian	10 yrs	40	Miner	Fall of slate	Back, side and arm scalded.
252	Thomas No. 36	John W. Young	5-24-09	American	8 yrs	55	Fireman	St'm pipe burst (outs 'e)	

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation- ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
Fayette County.									
283	Laura	Con'tl.	8-14-08	American	Unk'n	17	Laborer	Rope machinery (outside).	Three toes off right foot.
284	Minden No. 2	Howard Surbey	8-14-08	American	5 yrs.	20	Brakeman	Electric motor	Arm broken, face cut.
295	Minden No. 3	E. L. Bibb	8-14-08	American	10 yrs.	45	Miner	Fall of slate	Back sprained, leg bruised.
296	Brooklyn No. 2	Emmet Hoffman	8-14-08	American	1 yr.	15	Brakeman	Electric motor	Side cut, nose bruised.
297	Export	Howard Flint	8-15-08	American	2 yrs.	16	Miner	Fell off monitor(outside)	Body bruised.
298	Export	Charles Coy	8-15-08	American	2 yrs.	19	Miner	Fell off monitor(outside)	Body bruised.
299	Brooklyn	George Yancy	8-15-08	Negro	1 mo	25	Laborer	Lump of coal fell under triple (outside)	Contused scalp.
300	Sherwood	John Cicola	8-17-08	Italian	Unk'n	35	Miner	Premature explosion	Left eye out, leg & hands burned.
301	Rush Run	Jas. Chalis	8-18-08	American	Unk'n	24	Driver	Mine cars	Two fingers crushed.
302	Smokeless	Herbert Brown	8-20-08	Negro	2 yrs.	16	Driver	Mine cars (outside)	Leg broken.
303	Collins No. 2	Joe Saunders	8-20-08	Negro	20 yrs.	45	Miner	Fall of coal	Jaw bone fractured.
304	Brooklyn	Charles Miller	8-21-08	Negro	1 yr.	30	Laborer	Struck by adz (outside)	Left leg cut.
305	Minden No. 5	John Belar	8-21-08	Slavish	15 yrs.	35	Miner	Electric motor	Right leg broken.
306	Buffalo	Russell Copeland	8-21-08	American	Unk'n	25	Miner	Mine cars	Right hand injured.
307	Brooklyn	Fred Roberts	8-21-08	Russian	Unk'n	26	Laborer	Fall of slate	Toe mashed.
308	No. 14	Thomas Kearney	8-21-08	American	5 yrs.	37	Motor Runner	Flying coal	Chest and face lacerated.
309	Laurel	J. H. Foster	8-21-08	American	20 yrs.	35	Miner	Fall of slate	Left hip dislocated.
310	Red Ash	J. A. Butrick	8-21-08	Hungarian	8 mos.	45	Carpenter	Struck by hammer (outs' e)	Right foot bruised.
311	Red Ash	Joe Hoedecar	8-22-08	Slavish	3 days	29	Laborer	Mine cars	Breast bone broken.
312	Brooklyn	Sam Hamblet	8-22-08	Negro	1 mo.	21	Laborer	Mine cars	Body bruised.
313	Turkey Knob	Peter Bimfield	9-1-08	Polish	Unk'n	22	Laborer	Mine cars (outside)	Egg broken.
314	Turkey Knob	Jacob Laird	9-3-08	Negro	5 yrs.	40	Miner	Fall of slate	Knee cap off.
315	Kilsyth	Jerry Roder	9-8-08	American	Unk'n	33	Miner	Fall of slate	Left leg broken.
316	Red Ash	Edward Bumpas	9-11-08	Negro	4 yrs.	21	Miner	Fall of coal	Left foot bruised.
317	Rush Run	Joe Hemans	9-11-08	Negro	9 mos	27	Driver	Electric shock	Wound on forehead.
318	Harvey	Joe Hagey	9-10-08	Hungarian	8 yrs.	33	Miner	Mine cars	Toe mashed.
319	Harvey	John Dunn	9-11-08	Irish	20 yrs.	34	Mine Foreman	Caught by haulage rope	Leg broken, ankle dislocated.
320	Red Ash	Louis Coxie	9-14-08	Negro	Unk'n	29	Driver	Mine cars	Brused back.
321	Minden No. 4	Ross Butrick	9-15-08	American	7 yrs.	26	Driver	Mine cars	Toes crushed.
322	Sun	Fred Ford	9-15-08	American	2 yrs.	17	Driver	Mine cars	Squeezed through abdomen.
323	Harvey	Herman Lane	9-16-08	American	Unk'n	16	Driver	Mine cars	Two fingers off.
324	Elmo	James Pollock	9-17-08	American	2 yrs.	18	Driver	Fall of slate	Cut over eye, hips & ankle brns'd
325	Minden No. 3	Earl Harris	9-18-08	American	2 yrs.	16	Brakeman	Electric motor	Foot bruised.
326	Beechwood No. 1	George Branham	9-18-08	Negro	4 yrs.	33	Laborer	Fall of slate	Legs and back bruised.
327	Red Ash	Mike Kenosh	9-19-08	Hungarian	Unk'n	32	Miner	Fall of slate	Foot bruised.
328	Beechwood No. 1	Dewey Ford	9-21-08	Negro	7 yrs.	26	Driver	Kicked by mule	Mouth injured.

329	Kay Moor No. 2	Elijah Layne	9-21-08	Negro	5 yrs	24	Driver	Mine cars	Leg bruised.
330	Kay Moor No. 2	Julius Marshall	9-21-08	Negro	11 yrs	40	Miner	Fall of slate	Fractured thigh.
331	Brooklyn	Garrett Anderson	9-25-08	American	3 mos	27	Timbleman	Caught by R. R. cart (out 'se)	Left foot bruised.
332	Brooklyn	Gordon Black	9-25-08	Negro	Unk 'n	25	Car Dropper	Caught by R. R. cart (out 'se)	Back strained.
333	Minden No. 2	George Green	9-24-08	American	10 yrs	25	Driver	Fall of slate	Wrist broken.
334	Brooklyn	Stine Stablich	9-24-08	Polish	3 mos	26	Loader	Fall of slate	Left side and foot bruised.
335	Collins No. 2	Karl Dwicz	9-26-08	Hungarian	10 yrs	36	Miner	Fall of slate	Left leg fractured.
336	Dungen	John Cassell	9-26-08	American	3 yrs	25	Miner	Fall of slate	Back sprained.
337	Sugar Creek No. 2	William Jordan	9-28-08	Negro	Unk 'n	18	Timbleman	Caught between R. R. cars (outside)	Ankle mashed.
338	Buffalo	Charles Gumpsey	9-21-08	Italian	Unk 'n	25	Laborer	Mine cars	Bruised.
339	Vulcan	James Reed	10-1-08	American	3 yrs	36	Miner	Fall of slate	Left leg fractured
340	Beechwood No. 1	Theo. Grace	10-1-08	Negro	8 yrs	30	Miner	Fall of coal	Leg injured.
341	Kay Moor No. 2	Elijah Lane	10-4-08	Negro	5 yrs	24	Driver	Mine car	Sprained ligaments.
342	Rush Run	Wm. Richards	10-5-08	American	Unk 'n	22	Miner	Caught by post	Foot mashed.
343	Ephraim	James Epyling	10-6-08	American	20 yrs	35	Miner	Fall of slate	Wrist, collar bone & 7 ribs broken.
344	Red Ash	Wm. Sanders	10-7-08	Negro	13 yrs	25	Miner	Flying Coal	Back injured.
345	Minden No. 3	Paxton Lucas	10-8-08	American	2 yrs	18	Brickman	Electric Motor	Bruised hips and shoulders.
346	Collins No. 2	William Reese	10-8-08	Negro	Unk 'n	23	Fireman	Bursting of boiler pipe	Scalded.
347	Collins No. 2	Peter Benko	10-8-08	Hungarian	20 yrs	42	Miner	Fall of slate	Right leg fractured.
348	Rush Run	John Japes	10-12-08	Negro	Unk 'n	35	Driver	Fall of coal	Leg broken; contusion over back and side.
349	Sherwood	Andrew Thompson	10-15-08	American	6 yrs	20	Driver	Struck by timber (o 'side)	Leg broken.
350	Export	Wm. Carrol	10-15-08	Irish	2 yrs	36	Miner	Fall of slate	Back mashed.
351	Brooklyn	Mike Carl	10-16-08	Russian	Unk 'n	30	Loader	Fall of slate	Back injured.
352	Laxland	James Johnson	10-17-08	Negro	7 yrs	25	Tripp Rider	Mine cars (outside)	Bruises and contusions.
353	Brooklyn	Mulock Tarasinski	10-17-08	Russian	4 mos	25	Mech. Helper	Mining Machinery	Finger bruised.
354	Lookout	George Hitt	10-17-08	American	10 yrs	32	Driver	Kicked by mule	Bruised on head and back.
355	Collins No. 2	Joe Bogda	10-17-08	Hungarian	11 yrs	35	Trackman	Caught by feed wire	Right leg broken.
356	Derrydale	Major Thomas	10-29-08	American	5 yrs	25	Miner	Fall of slate	Leg broken.
357	Beechwood No. 1	Thos. Martin	11-6-08	Negro	8 yrs	20	Driver	Kicked by mule	Mouth injured.
358	Kilbuck	William R. Thomas	11-6-08	Negro	3 yrs	20	Water Bailor	Mine cars	Left foot mangled.
359	Sun	John Wright	11-6-08	Negro	2 yrs	30	Driver	Mine cars	Back injured.
360	Export	Erastus Adkins	11-10-08	American	2 yrs	45	Miner	Fall of slate	Thumb mashed.
361	Brooklyn	Pete Petoskey	11-11-08	Polish	Unk 'n	28	Loader	Fell'd wineline (o 'side)	Head and body bruised.
362	Red Ash	Mike Shelton	11-12-08	Italian	Unk 'n	47	Loader	Rolling stone (outside)	Foot arm broken.
363	Mecca	Wm. Howard	11-14-08	American	14 yrs	30	Miner	Fall of coal	Foot mashed; back injured.
364	Present No. 5	Chas. W. Parrish	11-14-08	Negro	24 yrs	60	Miner	Mine cars (outside)	Finger injured.
365	Present No. 5	James Farmer	11-16-08	American	23 yrs	60	Miner	Mine cars (outside)	Leg bruised.
366	Prudence	Lewis A. Holliday	11-17-08	American	10 yrs	26	Miner	Explosion of dynamite cap (outside)	Hand blown off.
367	Keeneys Creek	H. B. Hedrick	11-17-08	American	5 yrs	22	Miner	Fall of slate	Ankle sprained.
368	Turkey Knob	Thomas Bonds	11-23-08	American	11 mos	24	Miner	Fall of coal	Foot mashed.
369	M. B. No. 5	Chas. McGee	11-24-08	American	Unk 'n	30	Miner	Fall of slate	Back and hands bruised.
370	Rush Run	Sandy Thompson	11-24-08	Scottish	40 yrs	36	Miner	Blown out shot	Hands, arms and neck burned.
371	Sherwood	Andrew Tibzib	11-24-08	Polish	10 mos	21	Miner	Fall of coal	Leg broken.
372	Scarbore	J. W. Golf	11-25-08	American	2 yrs	25	Trackman	Mine cars	Bruises.
373	Hemlock	Frank Savage	11-26-08	Russian	Unk 'n	60	Miner	Struck by post	Wrist sprained.
374	Rush Run	P. J. Cosgrove	11-27-08	American	45 yrs	20	Timberman		Leg broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Fayette County—</i>									
376	Red Ash	Con't.	12- 2-08	American	Unk'n	45	Miner	Fall of slate	Foot bruised.
377	Rush Run	Joe Ankers	12- 3-08	American	Unk'n	25	Brakeman	Electric motor	Crushed internally.
378	Red Ash	Mose Waldron	12- 3-08	American	3 yrs.	30	Miner	Fall of coal	Head and face burned.
379	Brooklyn	Dave Davidson	12- 3-08	Negro	Unk'n	22	Laborer	Mine cars (outside)	Arm and wrist sprained.
380	Red Ash	Thos. J. Harris	12- 3-08	American	Unk'n	40	Miner	Fall of coal	Leg broken.
381	Star	Tim Boyd	12-10-08	Negro	3 yrs.	40	Miner	Mine cars	Scalp wound, eye bruised.
382	Kilysyth	Mike Imofs	12-10-08	Polish	2 yrs.	40	Miner	Fall of slate	Ribs fractured, nose injured.
383	Collins No. 2	John Gravely	12-14-08	Hungari'n	20 yrs.	23	Driver	Fall of slate	Ankle sprained.
384	Macdonald	Victor Morovics	12-18-08	Negro	8 yrs.	31	Miner	Fall of coal	Hip dislocated.
385	Sun	Elijah Medley	12-21-08	Hungari'n	Unk'n	22	Laborer	Fall of slate	Left leg broken.
386	Minden No. 5	Joe Bush	12-24-08	Litvitch	10 yrs.	32	Miner	Fall of slate	Leg broken.
387	Sun	Peter Malone	12-24-08	Negro	2 yrs.	35	Miner	Blown out shot	Head and face burned.
388	Sherwood	Edward Fowler	12-24-08	Negro	Unk'n	3	Driver	Mine cars	Face cut and bruised.
389	Minden No. 2	Wood Davis	12-30-08	American	Unk'n	23	Miner	Mine cars	Ribs broken, side injured.
390	Turkey Knob	William Robinson	12-31-08	American	Unk'n	19	Driver	Fall of slate	Right leg broken.
391	Diamond	William Randolph	1- 1-09	Negro	20 yrs.	40	Mch. Helper	Mining Machinery	Collar bone broken.
392	Sherwood	Geo. Ford	1- 4-09	Polish	Unk'n	45	Miner	Fall of slate	Mashed through breast and ribs
393	Export	Jeff W. Pugh	1- 4-09	American	2 yrs.	38	Laborer	Run over by dummy	Both bones of right leg fract'r'd
394	Alaska	J. W. Falls	1- 5-09	Negro	1 yr.	28	Miner	Jumped from monitor (outside)	Head and face cut, body bruised.
395	Nuttall	William Monroe	1- 6-09	American	3 yrs.	17	Brakeman	Mine cars	Bruises.
396	Brooklyn	Harry Dicker	1- 8-09	Hungari'n	Unk'n	42	Carpenter	Fall of scaffold (outside)	Forehead cut.
397	Rush Run	Chas. Firecock	1- 8-09	Italian	Unk'n	30	Laborer	Coke machine (outside)	Hip bruised.
398	Rush Run	John Murrell	1-11-09	American	25 yrs.	37	Miner	Mine cars	Comp. fracture of leg.
399	Minden No. 3	C. W. Jarrell	1-11-09	Hungari'n	20 yrs.	45	Miner	Fall of coal	Back injured.
400	Collins	Mike Blazar	1-11-09	American	25 yrs.	39	Miner	Mine cars	Head and shoulder injured.
401	Minden No. 3	Wm. James	1-11-09	Lithuanian	2 yrs.	22	Miner	Fall of slate	Head cut, shoulder dislocated.
402	Minden No. 3	Mike Sudith	1-12-09	Polish	Unk'n	23	Truckman	Electric motor	Comp. fracture of right leg.
403	Minden No. 2	John Wilkridge	1-12-09	Polish	Unk'n	25	Truckman	Premature Explosion	Face lacerated.
404	Rush Run	Peter Skebis	1-13-09	American	1 day	15	Trapper	Electric motor	Foot mashed, necessitating amputation.
405	Minden No. 4	George Willamson	1-14-09	American	Unk'n	18	Laborer	Fall of slate	Shoulder bruised and sprained.
406	Beechwood No. 2	O. B. Horseman	1-15-09	American	Unk'n	32	Miner	Fall of slate	Fracture of pelvis, rupture of bladder.
407	Brooklyn	O. B. Chewing	1-16-09	American	15 yrs.	38	Miner	Fall of slate	Foot and ankle bruised.
408	Minden No. 2	W. A. Bailey	1-20-09	Negro	Unk'n	38	Miner	Fall of slate	Leg broken.
409	Carver No. 2	James Litcomb							

440	McCrea	J. L. Davis	1-21-09	Welsh	20 yrs	40	Miner	Fall of coal	Mashed through the pelvis.
441	Predence	Cland Tuckson	1-25-09	American	2 yrs	35	Driver	Mine cars	Mashed through hips.
442	Wingrove	Joseph Meggison	1-26-09	American	6 yrs	19	Driver	Explosion dynamite caps	Face injured.
443	Dunlop No. 2	Mike Meggison	1-26-09	Hungari'n	6 yrs	40	Slaterman	Fall of slate	Leg fractured at ankle.
444	Rush Run	Harrison Farmer	1-26-09	American	Unk'n	58	Machine Man	Caught by machine jack	Bruised hips and ribs.
445	Macdonald	Jas. Hutchinson	1-27-09	American	20 yrs	25	Miner	Fall of slate	Leg broken, head cut.
446	Harvey	Mose Tate	2-3-09	American	3 yrs	22	Trackman	Mine cars	Eye injured.
447	Collins No. 2	Sam Stone	2-3-09	Negro	3 yrs	24	Driver	Mine cars	Mashed through hips.
448	Sun	Mack White	2-5-09	Negro	3 yrs	25	Driver	Mine cars	Dislocated and fractured wrist.
449	Laurel	Harry Whitlock	2-10-09	American	1 yr	18	Motorman	Electric motor	Hip bruised.
450	Newlyn	George Miller	2-11-09	American	15 yrs	35	Miner	Fall of slate	Arm and leg fractured.
451	Royal	Omner Richmond	2-15-09	American	8 mos	20	Loader	Premature explosion	Eye and arm injured.
452	Kilsyth	Edward Rose	2-16-09	Negro	Unk'n	26	Miner	Fall of slate	Mashed through back and right knee.
453	Rallinger No. 1	Joseph Agree	2-16-09	Negro	22 yrs	42	Miner	Fall of slate	Hips and back bruised.
454	Sun	James Brown	2-16-09	Negro	Unk'n	27	Driver	Kicked by mule	Eye injured, wounds on face.
455	Hemlock	Toni Bergimino	2-22-09	Italian	Unk'n	27	Trip Rider	Mine cars	Broken rib.
456	South	Frazier Evans	2-23-09	American	2 yrs	26	Laborer	Fall of slate	Arm broken, face bruised.
457	Oakwood	C. W. Goff	2-23-09	American	12 yrs	38	Miner	Mine cars	Collar bone dislocated.
458	Echo	Narval Kyle	2-25-09	Negro	3 yrs	26	Trip Rider	Caught by tail rope	Leg injured above ankle.
459	Rallinger No. 1	Frank Miller	2-25-09	American	3 yrs	22	Miner	Mine cars (outside)	Arm broken, ankle sprained.
460	Wingrove	Wm. Smith	2-26-09	Hungari'n	Unk'n	34	Miner	Fall of coal	Collar bone broken.
461	Black Betsy	Edward W. Kidwell	3-2-09	American	3 yrs	38	Miner	Electric motor	Collar bone broken, face bruised.
462	Layland	Oscar Davis	3-12-09	American	3 yrs	22	Trip Rider	Fall of slate	Three toes mashed.
463	Sun	George Penn	3-16-09	American	1 yr	22	Laborer	Haulage rope	Hand lacerated.
464	Turkey Knob	Emory E. Morton	3-17-09	American	16 yrs	30	Miner	Fall of slate	Left leg broken.
465	Fort Defiance	W. T. Sims	3-18-09	American	20 yrs	30	Miner	Fall of slate	Cuts on head.
466	Kilsyth	John Roy Henry	3-20-09	Negro	Unk'n	23	Driver	Mine cars	Nose broken, face bruised.
467	Collins	John Mineth	3-27-09	Hungari'n	Unk'n	40	Miner	Fall of slate	Leg broken, cut over eye.
468	No. 1	L. Six	3-30-09	American	Unk'n	27	Mechanic	Fell from tippie (outside)	Face and side lacerated, chest and back bruised.
469	No. 1	George Matheney	3-30-09	American	6 yrs	24	Mechanic	Fell from tippie (outside)	Comp. fracture of elbow, head fractured.
470	Red Ash	Martin Ranock	4-5-09	Hungari'n	1 yr	40	Miner	Fall of slate	Ankle bone broken.
471	Red Ash	Mike Rewosh	4-5-09	Hungari'n	3 yrs	33	Miner	Fall of slate	Leg and four ribs broken.
472	Whipple	Walter Dodson	4-5-09	American	18 yrs	37	Miner	Fall of slate	Mashed through hips and back.
473	Dunzlen	Joseph Chrostroski	4-7-09	Slavish	3 yrs	35	Miner	Fall of slate	External bruises.
474	Brooklyn	Bruks Long	4-10-09	Negro	3 yrs	26	Mach. Runn'r	Fall of coal	Foot mashed.
475	Ansted	William Brown	4-13-09	Negro	3 yrs	24	Miner	Fall of slate	Hips and legs bruised.
476	Minden No. 3	Robert Fields	4-21-09	American	12 yrs	19	Brakeman	Electric motor	Two toes broken, foot mashed.
477	Minden No. 3	A. Griffith	4-22-09	American	Unk'n	50	Laborer	Mine cars	One finger off.
478	Beechwood No. 2	Robert Lasley	4-26-09	Negro	7 yrs	50	Driver	Kicked by mule	Mouth injured.
479	Layland	Lewis Toste	4-27-09	Italian	2 yrs	19	Miner	Fall of slate	Sprained through hips.
480	Mecca	William D. Gay	4-28-09	American	8 yrs	24	Driver	Fall of slate	Head cut, leg bruised.
481	Ridgeview	Walter Copeland	4-28-09	American	Unk'n	24	Miner	Fall of slate	Back dislocated.
482	No. 2 North	Tony Capon	4-28-09	Italian	3 yrs	22	Driver	Mine cars	Left leg fractured.
483	Brown	Pendleton Porterfield	4-28-09	Negro	2 yrs	22	Miner	Fall of slate	Hips bruised.
484	Rush Run	Jos. Josenksi	5-4-09	Polish	3 yrs	19	Miner	Mine cars	Sprained wrist.
485	Layland No. 2	Ed. Yancey	5-10-09	American	6 yrs	24	Miner	Fall of coal	Leg broken.
486	Beechwood No. 2	Watt Chambers	5-14-09	Negro	6 mos	25	Miner	Fall of slate	Collar bone broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Fayette County</i>									
457	Elkridge No. 2	Con't.	5-17-09	American	4 yrs	16	Laborer	Mine cars	Brui- ses.
458	No. 2 North	Tobé Kinder	5-17-09	American	1 mo	14	Trapper	Mine cars	Rib broken, foot cut.
459	Echo	Wm. Harper	5-17-09	Negro	2 yrs	28	Driver	Mine cars	Ankle broken.
460	No. 2 North	A. D. Smith	5-17-09	American	2 yrs	30	Mech. Helper	Caught by mach. truck	Toe amputated.
461	Kilsyth	A. H. Lewis	5-24-09	American	2 yrs	28	Miner	Fall of slate	Comp. fracture of left leg.
462	Kilsyth	Obe Clendenen	5-26-09	American	Unk'n	27	Miner	Fall of slate	Mashed through hips and back.
463	Brooklyn	Michael Beal	5-28-09	American	Unk'n	45	Laborer	Fall of slate	Foot injured, one toe off.
464	Macdonald	Jacob Criss	5-28-09	American	18 mos	25	Miner	Fall of coal	Sprained back, bruised ankle.
465	Rush Run	Mike Tallowick	6- 4-09	Slavish	Unk'n	40	Miner	Fall of slate	Collar and jaw bone broken.
466	Rush Run	Mike Frandlewich	6- 4-09	Slavish	Unk'n	40	Miner	Fall of slate	Leg broken.
467	Macdonald	George Hicks	6- 5-09	Negro	5 yrs	32	Miner	Fall of coal	Right leg lacerated.
468	Brown	Wm. Woodson	6- 7-09	Negro	6 yrs	23	Miner	Jumped from monitor (outside)	Mashed through back and hips.
469	Brown	Steven Jones	6- 7-09	Negro	8 yrs	17	Miner	Jumped from monitor (outside)	Knee injured.
470	Thurmond No. 1	Conrad Morgan	6- 7-09	American	15 yrs	30	Miner	Fall of slate	Bruised on head.
471	Kilsyth	W. H. Thompson	6- 8-09	American	Unk'n	36	Contractor	Mine cars	Back wrenched.
472	Columbia No. 5	Walter Gill	6- 9-09	American	10 yrs	32	Foreman	Fall of coal	Right thigh bruised.
473	Brooklyn	James Robinson	6- 9-09	American	3 mos	28	Laborer	Fall of slate	Right leg fractured, bladder ruptured.
474	Layland	Tory Charlie	6-10-09	Italian	2 yrs	17	Miner	Fall of slate	Ankle sprained.
475	Prudence	George Honaker	6-11-09	American	4 yrs	20	Driver	Mine cars	Face bruised.
476	Parrot	John Williams	6-14-09	American	2 yrs	35	Driver	Mine cars	Collar bone broken, mashed through chest.
477	Nuttall	Noah Syner	6-18-09	American	10 yrs	25	Miner	Fall of slate	Chest and body bruised.
478	No. 2 North	Frank Spaul	6-18-09	Italian	4 yrs	23	Miner	Fall of coal	Leg broken.
479	Kilsyth	Charles C. Turner	6-21-09	American	2 yrs	25	Driver	Fall of slate	Upper and lower jaw bone fract'd
480	Brown	Wesley W. Warner	6-23-09	American	6 yrs	36	Miner	Fall of slate	face cut, teeth knocked out.
481	Sun	Ignat Wilkboose	6-25-09	Hungari'n	Unk'n	35	Miner	Fall of slate	Shoulders injured.
482	Rush Run	Steve Renosira	6-26-09	Slavish	3 yrs	24	Miner	Mine cars	Both bones in right leg broken.
483	Minden No. 2	Wm. Conway	6-30-09	American	40 yrs	50	Miner	Fall of slate	Body squeezed.
<i>Kanawha County</i>									
484	Imperial No. 3	Phillip Miller	7-21-08	American	3 yrs	30	Driver	Kicked by mule	Bruised hips and thighs.
485	Shamrock	George Dyar	7-28-08	American	Unk'n	23	Miner	Fall of slate	Upper jaw bone broken. A fract. and dislocated vertebrae

486 Blakeley	Steve Drazetic	7-28-08	Slavish	3 yrs	35 Miner	Fall of slate	Injury to back and spinal cord.
487 Kayford	D. J. Williams	8-12-08	American	20 yrs	45 Miner	Fall of coal	Back and shoulders sprained.
488 H. & S. No. 5	Frank Adams	9-9-08	American	2 yrs	33 Loader	Fall of slate	Hip bruised.
489 W. Va. No. 2	Dezorge Tiquaril	9-12-08	Italian	2 yrs	18 Thinner	Mine cars (outside)	Collar bone broken.
490 Knickerbocker	Frank Stephenson	3-18-08	American	8 yrs	27 Miner	Flying coal	Left leg broken.
491 standard	John Hume	9-30-08	Negro	3 yrs	40 Miner	Flying coal (outside)	Side injured.
492 Rose	Leslie Stamper	10-6-08	American	5 mos	14 Brakeman	Electric motor (outside)	Leg crushed, necessitating amputation.
493 Greenbrier No. 2	William Clark	10-7-08	American	7 yrs	22 Driver	Mine cars	Chest mashed.
494 Berlin	Mike Farbus	11-6-08	Slavish	1 yr	40 Loader	Fall of coal	Head cut.
495 United Gas No. 1	Geo. Collins	11-16-08	Slavish	Unk'n	19 Driver	Caught between roof and water box	Spine injured.
496 Imperial No. 3	Jess Holshin	11-19-08	American	10 yrs	30 Mach. Runner	Fall of slate	Body mashed.
497 Williams	Frank H. Woodrum	11-24-08	American	10 yrs	26 Miner	Fall of slate	Right leg broken.
498 Scranton	Hansford Neel	11-24-08	American	Unk'n	30 Dock Boss	Flying coal (outside)	Comp. fracture of skull.
499 Ronda	Samuel Hensley	12-1-08	American	15 yrs	30 Miner	Fall of slate	Back and foot strained.
500 Standard	James J. Johnson	12-1-08	American	5 yrs	20 Weighman	Mine cars (outside)	Cuts on body, left ankle bruised.
501 standard	Harry Johnson	12-1-08	American	4 yrs	20 Weighman	Mine cars (outside)	Scalp wound.
502 Standard	Mitch Woody	12-1-08	American	5 yrs	25 Laborer	Mine cars (outside)	Ankle joint bruised, ligaments of same ruptured.
503 Imperial No. 3	Ben H. Marshall	12-12-08	American	2 yrs	31 Mach. Runner	Fall of coal	Strained ankle.
504 Belmont	Thomas Kelley, Jr.	12-16-08	American	20 yrs	20 Driver	Mine cars	Cuts on head, back crushed.
505 Berlin	R. K. Counts	12-29-08	American	20 yrs	45 Miner	Premature Explosion	Eyes badly burned.
506 Lamont No. 3	Robert Merricks	1-11-09	American	Unk'n	18 Trip Rider	Mine cars (outside)	Right arm crushed.
507 Keystone	Marion Foster	1-15-09	American	Unk'n	17 Laborer	Electric motor (outside)	Right hand mashed, necessitating amputation.
508 Hughston	Curtis Pullen	1-19-09	Negro	15 yrs	35 Driver	Mine cars (outside)	Foot mashed.
509 W. Va. No. 1	Mat Johnson	1-27-09	Negro	3 yrs	35 Miner	Fall of Coal	Hip and back injured.
510 Oakley	Ellis Kidd	2-3-09	American	1 yr	20 Driver	Mine cars	Shoulder dislocated, chest injured.
511 Berlin	C. A. Legg	2-8-09	American	Unk'n	22 Tipplesman	Mine cars (outside)	Scalp wounds, back and right side wrenched.
512 United Splint	Dominick Cupero	2-22-09	Italian	Unk'n	46 Miner	Fall of slate	Leg lacerated, bladder ruptured.
513 Belle-claire	Joe Bogack	2-26-09	Russian	Unk'n	21 Miner	Fall of slate	Scalp and left shoulder injured.
514 W. Va. No. 1	Sam Junner	2-27-09	American	Unk'n	45 Miner	Fall of coal	Leg cut and bruised.
515 W. Va. No. 4	Frank Mead	3-8-09	American	Unk'n	20 Motorman	Mine cars	Back bruised.
516 South Horton	John Cassel	3-10-09	American	3 yrs	30 Miner	Fall of slate	Ankle cut.
517 Oakley	Jas. Roberts	3-15-09	Negro	Unk'n	22 Driver	Mine cars	Collar bone broken.
518 Hughston No. 2	Wm. Holmes	3-19-09	Negro	2 yrs	30 Driver	Mine cars	Broken finger.
519 Oakley	Tom Cole	3-22-09	American	Unk'n	30 Tipplesman	Flying coal (outside)	Finger cut.
520 United Gas No. 1	John Rocket	3-25-09	Italian	Unk'n	28 Laborer	Struck by post	Knee bruised.
521 Greenbrier No. 2	Rex Anderson	3-27-09	Unknown	3 mos	18 Laborer	Mine cars	Foot sprained.
522 Oakley	Pete Scates	3-27-09	Negro	Unk'n	23 Driver	Mine cars	Instep bruised.
523 W. Va. No. 1	W. W. Pannell	4-1-09	Negro	Unk'n	35 Miner	Fall of coal	Bruised back and hips.
524 W. Va. No. 1	Oscar McKinney	4-5-09	American	Unk'n	45 Miner	Fall of coal	Leg broken.
525 Buckeye	Dave Smith	4-26-09	Negro	3 yrs	27 Miner	Struck by pole (outside)	Left leg broken.
526 W. Va. No. 1	Dave Steh	4-26-09	American	1 yr	18 Miner	Mine cars	Comp. fracture of left leg.
527 Paint Creek	A. R. Johnson	5-4-09	American	20 yrs	32 Miner	Fall of slate	Body bruised.
528 South	Ira Edleman	5-12-09	American	Unk'n	23 Mach. Helper	Fall of slate	

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Kanawha County.</i>									
529	New Coalburg	Con't.	5-14-08	English	17 yrs	30	Maoh. Runner	Caught by machine truck	Finger mashed.
530	Hingeston No. 2	Harry Robson	5-17-08	American	7 yrs	40	Miner	Fall of slate	Foot and leg cut and mashed.
531	Grose No. 1	E. H. Johnson	5-19-08	American	2 yrs	16	Modernman	Mine cars	Hand mashed.
532	Greenbrier No. 2	Lafayette Morris	5-22-08	American	5 yrs	23	Miner	Flying coal	Eye injured.
533	Point Creek	Garfield Edds	5-27-08	American	6 yrs	31	Miner	Fall of coal	Right leg lacerated.
534	Grose No. 1	J. E. Garrison	6-2-08	American	4 yrs	16	Trip Rider	Mine cars (outside)	Leg mashed.
535	Grose No. 2	Clarence Parsons	6-9-08	American	Unk'n	30	Miner	Fall of coal	Eye injured, nose and jaw bone fractured.
536	Queen Shoals	Frank Speck	6-12-08	German	20 yrs	45	Miner	Fall of slate	Bruises.
537	North Carbon	Andy Sbardn	6-12-08	Hungarian	Unk'n	35	Miner	Fall of slate	Fingers lacerated.
538	North Carbon	Jim Martin	6-15-08	American	Unk'n	42	Miner	Fall of slate	Arm cut, hip dislocated.
539	Butler	Charles Tucker	6-22-08	American	1 yr	16	Miner	Fall of slate	Spine dislocated.
<i>Nicholas County.</i>									
540	Raven	John L. Webb	10-14-08	American	3 mos.	41	Laborer	Fall of slate	Leg broken.
541	Fenwick	Arthur Maunsure	12-19-08	American	Unk'n	22	Supt	Premature blast	Face and eyes burned.
<i>Raleigh County.</i>									
542	Dorothy	Wm. Wright	7-2-08	American	5 yrs	25	Miner	Mine cars	Comp. fracture of cavicle.
543	Beckley	Austin Gottle	7-10-08	American	2 yrs	24	Miner	Fall of slate	Wound on leg.
544	Piney No. 3	Edward Warden	8-6-08	American	3 yrs	19	Driver	Kicked by mule	Leg dislocated.
545	Malscott	William Scott	8-10-08	Negro	6 yrs	23	Driver	Mine cars	Left hand cut and bruised.
546	Beckley	Henry B. Brewer	8-11-08	American	10 yrs	30	Miner	Fall of slate	Left leg strained and bruised.
547	Wright No. 1	Forest Brice	8-11-08	American	3 yrs	19	Miner	Fall of slate	Collar bone broken.
548	Piney No. 2	Frank Miller	8-12-08	American	18 mos	20	Driver	Mine cars	Squeezed through hips and abdomen.
549	Lanark No. 10	Cleve Fuller	8-22-08	American	5 yrs	24	Miner	Fall of slate	Broken leg mashed through hips
550	Graham	Lemuel Smith	8-25-08	American	Unk'n	26	Mine Boss	Fall of slate	Collar bone fractured, scalp and face lacerated.
551	Sprague	Jas. Spangler	8-25-08	American	20 yrs	38	Miner	Fall of slate	Head, hips and leg bruised.
552	Malscott	Fred Pack	8-28-08	American	1 yr	15	Trapper	Fall of slate	Back bruised, arm cut.
553	Raleigh No. 6	Davey Furgeson	8-28-08	Scotch	15 yrs	29	Miner	Fall of slate	Leg broken, back mashed.
554	Raleigh No. 5	Kirby Miller	9-1-08	American	4 yrs	26	Miner	Fall of slate	Back sprained, leg and foot mashed.
555	Terry	Milton Hobbs	9-22-08	American	Unk'n	20	Miner	Fall of slate	Leg broken, collar bone fractured
556	Dorothy	Nicola Audriono	9-23-08	Italian	Unk'n	28	Laborer	Fell from R. car (outside)	Scalp cut, back bruised.
557	Beckley	Robt. Evans	9-28-08	American	3 mos.	30	Trackman	Mine cars	Foot bruised.

558	Cranberry	George Stewart	9-28-08	15 yrs	37 Miner	Fall of slate	Back and breast hurt.
559	Beckley	Joan Roscano	10-14-08	18 mos	23 Miner	Fall of slate	Foot mashed.
560	Raleigh No. 3	Robert Fleming	10-15-08	10 yrs	30 Miner	Fall of slate	Leg bruised.
561	Price Hill	Wm. George Parrish	10-17-08	Unk'n	35 Miner	Struck by falling piece of pipe in shaft	Scalp wound.
562	Raleigh No. 6	John Harris	10-22-08	5 yrs	30 Mch. Runner	Mining machine	Leg broken.
563	Tamroy	Charley Allen	10-25-08	Unk'n	21 Trip Rider	Electric motor	Knee injured, leg fractured.
564	Beckley	Steve Alonge	10-30-08	Unk'n	25 Miner	Fall of slate	Finger broken.
565	Raleigh No. 6	Chris Hauley	11-10-08	3 yrs	22 Miner	Mine cars	Leg broken.
566	Raleigh No. 6	Joe Brown	11-11-08	4 yrs	35 Mch. Helper	Fall of slate	Back and hips bruised.
567	Dorothy	Clarence Harris	11-12-08	12 yrs	26 Brakeman	Mine cars	Ankle bruised.
568	Terry	P. T. Walls	11-16-08	6 wks	25 Laborer	Fall of slate	Foot mashed.
569	Raleigh No. 6	Max McCluckey	11-17-08	12 yrs	33 Miner	Fall of slate	Foot bruised.
570	Raleigh No. 6	Sam Wilson	11-18-08	5 yrs	35 Steteman	Fell over hillside (o. s.)	Right leg broken.
571	Beckley	Willie Harris	11-23-08	1 yr	16 Driver	Thrown from mule	Three ribs broken.
572	Beckley	Robt. Evans	12-21-08	6 mos	30 Trackman	Mine cars	Finger broken.
573	Dorothy	Wm. Shannon	12-22-08	Unk'n	25 Motorman	Mine cars	Leg broken.
574	Beckley	Sam Servenael	12-23-08	2 mos	21 Miner	Mine cars	Right leg broken.
575	Oswald	George Kerinchock	12-25-08	5 yrs	23 Laborer	Mine cars	Two ribs broken.
576	Beckley	Dominic Marino	1-6-09	1 yr	28 Miner	Fall of slate	Knee bruised, left hip dislocated.
577	Beckley	Sidnor Victoria	1-6-09	1 yr	24 Driver	Mine cars	Little finger mashed off.
578	Dorothy	Robert Mays	1-14-09	10 yrs	24 Miner	Fall of coal	Shoulders mashed, ankle sprained.
579	Raleigh No. 6	Wayley King	1-14-09	1 yr	30 Miner	Fall of slate	Back sprained.
580	Dorothy	J. K. Hasten	1-14-09	8 yrs	48 Miner	Fall of coal	Three fingers off, head cut, shoulders bruised.
581	Raleigh No. 6	Wilbur Man	1-20-09	1 yr	25 Laborer	Mine cars (outside)	Two bones broken in right foot.
582	Wright No. 1	Archie Watson	1-20-09	4 yrs	28 Miner	Mine cars (outside)	Hand mashed.
583	Dorothy	S. H. Pettry	1-21-09	10 yrs	38 Mine Foreman	Mine cars (outside)	Bruises on leg.
584	Raleigh No. 3	Rappold Pokhi	2-10-09	6 yrs	31 Miner	Fall of slate	Collar bone and three ribs broken
585	Wright No. 2	Lee Elam	2-17-09	25 yrs	51 Miner	Fall of slate	Collar bone broken.
586	Cranberry	William Blades	2-17-09	10 yrs	29 Fire Boss	Mine cars	Right leg broken.
587	Sprague	Robt. Matheny	2-18-09	10 yrs	35 Miner	Fall of slate	Right leg fractured.
588	Stonewall No. 3	C. L. Simms	2-25-09	5 yrs	35 Miner	Fall of slate	Shoulder bruised, ear cut.
589	Stonewall No. 3	Yonice Wilchett	3-1-09	2 yrs	30 Driver	Mine cars	Ankle sprained.
590	Dorothy	August Grass	3-5-09	9 yrs	30 Miner	Explosion of powder	Neck and arms burned.
591	Dorothy	J. S. Stanley	3-5-09	20 yrs	33 Motorman	Explosion of powder	Face and neck burned.
592	Oswald	Albert F. Wilkinson	3-15-09	8 yrs	28 Miner	Kicked by mule	Nose broken, mouth injured.
593	Graham	Dalis McCormack	3-16-09	Unk'n	30 Miner	Fall of slate	Comp. fracture of arm.
594	Graham	Peacela Gavoni	3-17-09	18 mos	24 Laborer	Mine cars	Two fingers injured.
595	Oswald	Will B. Smith	3-22-09	10 yrs	25 Driver	Mine cars	Shoulders, head and hips bruised
596	Wright No. 2	Robert Yancy	3-29-09	19 days	22 Trip Rider	Knock'd by monitor (outside)	Chest mashed, collar bone broken.
597	Price Hill	Richard Lewis	4-6-09	8 yrs	20 Trip Rider	Mine cars	Hand mashed.
598	Cranberry	Will Ross	4-10-09	2 yrs	27 Miner	Fall of slate	Back bruised.
599	Beckley	W. H. Nicholas	4-13-09	12 yrs	26 Miner	Mine cars	Hand mashed.
600	Raleigh No. 4	Robert Mahoney	4-13-09	4 yrs	30 Steteman	Fall of slate	Right arm broken.
601	Raleigh No. 6	R. L. Maves	4-14-09	2 yrs	21 Trip Rider	Electric motor	Toe mashed.
602	Dorothy	Putney Cottrell	4-14-09	8 yrs	18 Brakeman	Mine cars	Comp. fracture of left leg.
603	Mabscott	Charles Shellough	4-15-09	15 yrs	40 Miner	Fall of slate	Back and shoulder bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Raleigh County.</i>									
604	Beckley	Con't.	4-15-09	American.	15 yrs	30	Miner	Flying slate	Eye injured.
605	Ratcliff No. 1	J. F. Nichols	4-17-09	American.	10 yrs	45	Miner	Fall of slate	Leg, collar bone and ribs broken.
606	Blue Jay No. 4	Barney McQuade	4-20-09	Scotch	20 yrs	42	Miner	Fall of slate	Leg bruised.
607	Beckley	J. A. Carney	4-26-09	American	Unk'n	27	Tripp Rider	Electric motor	Foot mashed.
608	Skellton	James Burdette	5-4-09	American	10 yrs	25	Driver	Electric motor	Leg broken.
609	Piney No. 4	W. A. Mitchell	5-5-09	Negro	6 yrs	28	Miner	Fall of slate	Body bruised.
610	Ratcliff No. 5	Vent Wither	5-15-09	American	4 yrs	30	Miner	Fall of slate	Left leg broken.
611	Beckley	Samuel Crowder	5-25-09	Negro	5 yrs	20	Miner	Fall of slate	Left leg broken.
612	Stab Fork	Alex Travis	5-30-09	Negro	Unk'n	24	Mach. Helper	Fall of slate	Bones of left leg fractured.
613	Price Hill	Lumley C. Farley	5-31-09	American	3 yrs	20	Trippman	Mine cars (out-side)	Hips bruised.
614	Stab Fork	W. J. Ratcliff	5-27-09	American	10 yrs	36	Miner	Explosion of powder	Eyes burned.
615	Piney No. 4	Andrew Mickey	6-3-09	Negro	9 yrs	25	Miner	Fall of slate	Back injured.
616	Piney No. 4	W. L. Dickerson	6-3-09	American	4 yrs	23	Miner	Fall of slate	Back injured.
617	Piney No. 4	Andrew Mickey	6-5-09	American	Unk'n	24	Statenman	Fall of slate	Body squeezed.
618	Ratcliff No. 1	Luther Sherman	6-7-09	American	6 yrs	25	Miner	Fall of slate	Leg broken, foot mashed.
619	Price Hill	Joe Cornan	6-8-09	Polish	1 yr	26	Miner	Premature explosion.	Face and eyes burned.
620	Tamroy	Alfonso Vercelli	6-9-09	Italian	2 yrs	26	Miner	Fall of slate	Internal injuries, hip bruised.
621	Piney No. 1	Calvin Surber	6-11-09	American	6 yrs	18	Miner	Mine cars	Arm cut.
622	Dorothy	Chas. E. Panley	6-12-09	American	25 yrs	35	Miner	Fall of slate	Cuts on head.
623	Beckley	J. A. Carney	6-12-09	American	15 yrs	27	Tripp Rider	Mine cars	Foot injured.
624	Beckley	U. Elgerton	6-17-09	Italian	4 yrs	27	Miner	Fall of slate	Arm broken.
625	Beckley	Frank Parks	6-18-09	Negro	3 yrs	27	Miner	Fall of slate	Leg broken.
626	Ratcliff No. 6	Charles Farver	6-21-09	Hungari'n	2 yrs	20	Miner	Fall of slate	Head cut, back bruised.
627	Beckley	Jake Ayers	6-23-09	Negro	2 yrs	20	Miner	Fall of slate	Back and hips injured.
<i>Mercer County.</i>									
628	Coaldale	William Gray	7-2-08	Negro	1 yr	15	Trapper	Fall of slate	Index finger mashed, necessitating amputation.
629	Louisville	Thos. Wade	7-2-08	Negro	2 yrs	35	Miner	Flying coal	Left leg broken.
630	Louisville	Thomas L. Payne	7-8-08	Negro	15 yrs	35	Miner	Fall of slate	Mashed through chest, cut over left eye.
631	Crape Creek No. 1	Carl Melak	7-18-08	Hungari'n	2 yrs	21	Miner	Fall of slate	Back injured.
632	Mill Creek	George Stanger	7-18-08	American.	Unk'n	12	Coupler	Mine cars (out-side)	Comp. fracture of left arm.
633	Crystal	Earnest Perkins	7-23-08	American.	Unk'n	17	Trapper	Mine cars	Right leg lacerated.
634	Thomas	Wm. Hughes	7-25-08	Negro	10 yrs	30	Miner	Mine cars	Right leg injured. Bruises, hip dislocated.

635	Weyanoke	Preston, Poindexter.	7-27-08	Negro	2 yrs	45 Miner	Fall of coal	Collar bone broken.
636	Crane Creek No. 1	Frank Butch	8-11-08	Italian	2 yrs	24 Laborer	Mine cars	Left foot fractured.
637	Louisville	Joe Hopkins	8-13-08	Negro	10 yrs	28 Miner	Struck by pick	Hand injured.
638	Coaldale	Oscar Byrd	8-17-08	American	2 yrs	30 Miner	Fall of slate	Neck strained, wound on head.
639	Coaldale	Richard Lipscomb	8-18-08	Negro	3 days	21 Driver	Caught by tail chain	Cut over left eye.
640	Hiawatha	Chas. Shellhorse	8-24-08	Negro	10 yrs	40 Laborer	Mine cars	End of index finger right hand mashed off.
641	Coaldale	Albert D. Webster	8-28-08	American	9 yrs	35 Miner	Fall of slate	One finger lacerated, two mashed off.
642	Caswell Creek	Charles Pillar	8-29-08	American	7 yrs	25 Driver	Mine cars	Three fingers mashed.
643	Pawama No. 1	Joe Shortlee	8-31-08	Hungarian	12 yrs	40 Miner	Fall of slate	Arm fractured.
644	Crystal	Ignace Varodi	9-14-08	Slavish	Unk'n	45 Miner	Fall of slate	Left leg fractured.
645	Pinnacle North	Alec Cady	9-21-08	Hungarian	9 yrs	35 Miner	Fall of slate	Head cut, right shoulder and hip bruised.
646	Spring	Martin V. Craft	9-25-08	American	5 yrs	30 Miner	Fall of coal	Ankle sprained, arm bruised.
647	Thomas	Peter Griches	9-25-08	Russian	2 yrs	25 Miner	Fall of slate	Leg broken.
648	Crystal	Henry Howard	9-25-08	Negro	Unk'n	45 Miner	Fall of slate	Skull fractured, hip dislocated.
649	Piedmont	Hubert Atkins	10- 6-08	American	2 yrs	Driver	Mine cars	Ankle sprained.
650	Pawama	George Sheets	10- 9-08	American	6 yrs	30 Miner	Fall of slate	Arm mashed.
651	Crane Creek No. 1	John Smith	10-16-08	Russian	3 yrs	30 Miner	Fall of slate	Sprained ankle, hip and back bruised.
652	Spring	Sherman Shrewsbury	10-24-08	American	4 yrs	25 Brakeman	Fall of slate	Wrist broken.
653	Caswell Creek	Lester Fowler	11- 4-08	American	12 yrs	38 Miner	Fall of slate	Hips and back bruised.
654	Weyanoke	Andy Taylor	11- 6-08	American	Unk'n	25 Laborer	Flying steel	Crushed through pelvis.
655	Crystal	Melvin Harmon	11-21-08	American	Unk'n	25 Driver	Mine cars	Injured internally.
656	Crystal	Tom Milburn	11-21-08	Negro	Unk'n	30 Driver	Scalp cut.	Scalp cut.
657	Caswell Creek	Robert Muse	12- 8-08	Negro	6 yrs	18 Brakeman	Steam locomotive	Bruised side.
658	Caswell Creek	John Kesler	12- 8-08	American	8 yrs	37 Machinist	Steam locomotive	Arms, neck, face and shoulders burned.
659	Pawama No. 1	J. J. Lewis	12-10-08	Negro	20 yrs	45 Miner	Fall of coal	Hands, neck and face burned.
660	Weyanoke	J. M. Ballard	12-11-08	American	5 yrs	30 Miner	Fall of slate	Left hand mashed, head cut.
661	Crystal	Douglas MacRath	12-12-08	Negro	2 yrs	35 Miner	Fall of coal	Bones of right leg lacerated.
662	Booth Bowen	Steve Rabbi	12-14-08	Slavish	4 yrs	35 Miner	Fall of slate	Leg bruised.
663	Louisville	Thomas Wade	12-15-08	Negro	8 yrs	25 Miner	Fall of slate	Face cut.
664	Weyanoke	Orpinus Burnett	1- 5-09	American	Unk'n	23 Carpenter	Mine cars (outside)	Back bruised.
665	Crane Creek No. 2	Benjamin Tarran	1-18-09	English	8 yrs	25 Miner	Fall of slate	Two ribs fractured.
666	Coaldale	Sherman Watkins	1-22-09	Negro	12 yrs	42 Miner	Fall of slate	Arm broken, back bruised.
667	Crystal	James Watkins	1-22-09	American	2 yrs	20 Driver	Fall of slate	Comp. fracture of left leg.
668	Spring	Frank Grabar	1-30-09	Hungarian	Unk'n	25 Laborer	Fall of slate	Knee cut.
669	Weyanoke No. 2	Dominic Wania	2- 5-09	Italian	22 mos	26 Miner	Fall of slate	Cuts and bruises about head.
670	Mill Creek	Toney Lapinski	2- 6-09	Polish	Unk'n	38 Miner	Fall of slate	Two ribs broken, spinal column twisted.
671	Pinnacle	William G. Tabor	2-11-09	American	15 yrs	43 Miner	Fall of slate	Thigh and leg fractured, hip dis- located, wound on face.
672	Coaldale	John W. Jamerson	2-11-09	Negro	4 mos	34 Miner	Fall of coal	Foot injured, chest & head lacerat- ed.
673	Caswell Creek	Mike Chismo, Jr	2-18-09	Hungarian	Unk'n	34 Miner	Fall of slate	Thigh and leg fractured.
674	Pinnacle	Sam Washington	2-20-09	Negro	13 yrs	34 Miner	Fall of slate	Nose, forearm and foot bruised.
675	Crane Creek No. 1	Lazo Moe	3-10-09	American	3 yrs	25 Miner	Fall of slate	Right leg fractured, hip bruised. Back and leg bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Mercer County</i>									
676	Pinnacle North	Coal't.							
677	Pinnacle North	John Higgins	3-11-09	American	2 yrs	20	Miner	Fall of slate	Right ankle disloc'd, hips brus'd
678	Pinnacle North	E. A. Abe	3-19-09	American	3 yrs	22	Miner	Fall of slate	Nose injured.
679	Pinnacle South	J. A. Stevens	3-20-09	American	3 yrs	22	Miner	Fall of slate	Ankle fractured.
680	Coaldale	Lewis Williamson	4-1-09	Negro	10 yrs	32	Miner	Mine cars	Ophthalmia.
681	Coaldale	Lewis Pammel	4-1-09	Negro	10 yrs	34	Miner	Mine cars	Finger lacerated.
682	Pinnacle South	Henry Williams	4-8-09	Negro	1 yr	15	Laborer	Fall of slate	Arm fractured.
683	Coaldale	Joe Gwinn	4-12-09	Negro	1 yr	30	Driver	Mine cars	Injury to bladder.
684	Coaldale	Bernard Ferdinand	4-14-09	Italian	4 yrs	26	Miner	Mine cars	Scalp wound, face lacerated.
685	Pinnacle South	Joe Cinadello	4-14-09	Italian	3 yrs	27	Miner	Fall of coal	Arm broken.
686	Coaldale	Julia Miculski	4-14-09	Russian	1 yr	33	Laborer	Struck by axe	Hand injured.
687	Coaldale	John Minorichuk	4-19-09	Hungarian	6 mos	42	Miner	Fall of slate	Wound of scalp.
<i>Mercer County</i>									
687	Coaldale	Joseph Young	4-30-09	Negro	9 yrs	36	Miner	Fall of slate	Thumb dislocated, thigh mashed
688	Coaldale	J. A. Pierce	5-4-09	American	17 yrs	34	Miner	Fall of slate	Back and hands bruised.
689	Mill Creek	Early Johnson	5-6-09	Negro	2 mos	36	Laborer	Mine cars	Toes of right foot mashed.
690	Mill Creek	George Jones	5-7-09	Negro	2 yrs	22	Miner	Stepped on spike	Foot injured.
691	Mill Creek	Washington Williams	5-10-09	Negro	3 yrs	29	Miner	Fall of slate	Foot mashed.
692	Thomas	David T. Prichard	5-14-09	American	1 yr	15	Tippleman	Mine cars (outside)	Leg fractured.
693	Caswell Creek	Geo. Taney	5-19-09	Negro	2 yrs	38	Watchman	Steam locomotive (o. s.)	Ankle bruised.
694	Mill Creek	Joseph Carter	5-21-09	Negro	2 yrs	35	Miner	Caught on spike	Hand injured.
695	Mill Creek	Wm. A. Williams	5-23-09	American	Unk'd	34	Laborer	Stepped on spike	Foot injured.
696	Mill Creek	Frank Abini	5-24-09	Italian	2 mos	22	Laborer	Fall of coal	Mashed through hips, back strained.
697	Goodville	E. L. Lucas	5-27-09	American	2 yrs	25	Miner	Fall of slate	Back sprained.
698	Coaldale	Henry Baker	5-27-09	Negro	2 yrs	20	Miner	Fall of slate	Foot and back of neck bruised.
699	Coaldale	John Carter	5-28-09	Negro	10 yrs	37	Miner	Fall of coal	Right foot injured.
700	Mill Creek	James Vaden	6-8-09	Negro	9 mos	29	Miner	Fall of slate	Shoulder and face bruised.
701	Coaldale	Ruben Tinsley	6-9-09	Negro	11 yrs	30	Miner	Fall of coal	Scalp wound.
702	Coaldale	Watcher Kiralf	6-11-09	Polish	3 mos	38	Laborer	Struck by cap plev	Scalp wound.
703	Kondyke	Jas. Brooks	6-11-09	American	2 yrs	32	Miner	Fall of slate	Leg fractured, back bruised.
704	Mill Creek	Floyd Edmonds	6-17-09	Negro	12 yrs	26	Miner	Fall of slate	Wound over left eye.
705	Coaldale	Mark Cavera	6-18-09	Italian	1 week	21	Laborer	Caught by post	Finger lacerated.
706	Coaldale	David Lynch	6-19-09	Italian	3 yrs	25	Driver	Fall of coal	Eye injured.
707	Crystal	Martin Yarosh	6-19-09	Slavish	2 yrs	30	Miner	Fall of slate	Head cut, back bruised.
708	Backeye	William Graves	6-19-09	Negro	2 yrs	27	Trackman	Fall of slate	Leg broken.
709	Coaldale	Elijah Adams	6-22-09	Negro	6 yrs	24	Driver	Mine cars	Ankle sprained.

710 Mill Creek	Geo. W. Smith	6-22-09	Negro	Unk'n	29 Miner	Caught bet. prop & mule	Finger injured.
711 Coaldale	W. W. Barrett	6-26-09	American	2 mos.	21 Laborer	Fall of slate	Scalp wound.
<i>McDowell County.</i>							
712 Crozer No. 2	Joe Hardar	7-1-08	Hungari'n	4 yrs.	30 Miner	Mine cars	Foot mashed.
713 Crozer No. 2	John Hareron	7-1-08	Hungari'n	6 yrs.	37 Miner	Fall of slate	Head cut, leg bruised.
714 Tidewater	Dominick Squillac	7-2-08	Italian	10 mos.	30 Miner	Gas explosion	Hands and face burnt.
715 Jed	Baker Lee	7-2-08	American	Unk'n	29 Miner	Premature explosion	Head and face cut.
716 Berwind No. 2	John Tudor	7-3-08	Hungari'n	1 yr	20 Shot Firer	Explosion of powder	Hands, wrists, face & neck bur'd
717 McDowell	Cleoro Campbell	7-6-08	Negro	Unk'n	20 Miner	Fall of coal	Ankle sprained, leg bruised.
718 North Side	John Martin	7-7-08	Negro	4 yrs	26 Miner	Premature explosion	Face and hands burned.
719 McDowell	George Musolz	7-7-08	Italian	18 mos	20 Miner	Blown through shot	Collar bone fractured, face and arm bruised.
720 Peerless	Henry Carter	7-7-08	Negro	1 day	23 Laborer	Fall of slate	Shoulder and leg bruised.
721 Elk Ridge	Leo Fast	7-8-08	Greek	4 yrs.	30 Miner	Fall of coal	Leg broken.
722 Jed	V. R. Winner	7-8-08	American	Unk'n	27 Tiptleman	Fell from timple (outside)	Leg fractured.
723 U. S. No. 2	Thos. Eliffe	7-11-08	Romanian	2 mos	28 Miner	Fall of slate	Leg broken.
724 Berwind No. 2	Will Price	7-13-08	American	3 yrs	25 Laborer	Mine cars	Ankle bruised.
725 Eureka	John Garrett	7-15-08	Negro	Unk'n	27 Stateman	Fall of slate	Leg broken.
726 Houston No. 2	John Iskie	7-17-08	Hungari'n	2 mos	19 Miner	Fall of slate	Foot mashed.
727 Page	Allen Kade	7-18-08	American	6 yrs	21 Brakeman	Mine cars	Hips mashed and sprained.
728 Angle	Harvey Coles	7-20-08	Negro	3 mos	15 Door Boy	Caught by mine door	Left arm broken.
729 Delta	Alfred Cabell	7-21-08	Negro	1 yr	24 Miner	Fall of slate	Sprained back, lacerated lip.
730 Eureka	Link Porter	7-22-08	Negro	3 yrs	32 Stateman	Flying slate	Leg broken.
731 U. S. No. 7	Charles Brown	7-24-08	Negro	3 yrs	21 Miner	Fall of slate	Leg broken.
732 U. S. No. 11	William Lowry	7-24-08	American	3 yrs	19 Brakeman	Electric motor	Foot mashed, one toe off.
733 Peerless	John Eggora	7-25-08	Polish	2 yrs	32 Miner	Mine cars	Leg broken.
734 U. S. No. 1	Peter Kale-zoon	7-27-08	Romanian	9 mos	22 Miner	Fall of coal	Left leg fractured.
735 Shamokin	William Bowling	7-28-08	Negro	1 yr	22 Driver	Mine cars	Rib fractured, hip sprained.
736 Pulaski	Charles Cooney, Jr.	7-29-08	American	2 mos	23 Brakeman	Mine cars	Foot lacerated.
737 Bottom Creek	Lee Faulkner	8-4-08	American	6 yrs	20 Motorman	Electric shock	Hands burned.
738 Peerless	William Black	8-5-08	Negro	15 yrs	25 Laborer	Fall of slate	Head cut, two ribs broken.
739 Hall No. 1	George Cragger	8-6-08	American	2 mos	18 Miner	Fall of slate	Head cut.
740 Middle States No. 11	Thomas Rodnett	8-6-08	Negro	Unk'n	24 Brakeman	Mine cars	Three ribs broken, chest injured.
741 Jed	Martin Smith	8-8-08	Polish	Unk'n	35 Miner	Fall of slate	Back sprained.
742 Eureka	Walter Larecy	8-10-08	Negro	7 yrs	31 Miner	Fall of slate	Foot crushed.
743 Shamokin	Nick Moorman	8-10-08	Negro	8 yrs	34 Miner	Premature explosion	Arm broken, face & head bruised
744 Berwind No. 2	Joe Hardsog	8-10-08	Hungari'n	2 yrs	35 Shot Firer	Explosion of powder	Hands and face burned.
745 Imo	Joe Collier	8-11-08	American	Unk'n	20 Laborer	Fall of slate	Ankle crushed.
746 Turner Summits	Turner Summits	8-12-08	Negro	7 yrs	23 Driver	Mine cars	Leg fractured.
747 Cal Graves	Cal Graves	8-14-08	Negro	2 yrs	40 Miner	Fall of slate	Shoulders bruised.
748 McDowell No. 1	Alex Vencavitch	8-14-08	Slavish	6 yrs	29 Miner	Fall of slate	Head, neck, face & sh'ld's bruised
749 Bottom Creek	Chas. Sparks	8-15-08	American	1 yr	22 Brakeman	Mine cars	Arm fractured, hip bruised.
750 Berwind No. 3	Fayette Smith	8-15-08	American	Unk'n	36 Miner	Blown out shot	Hands and face burned.
751 Big Sandy	Theodore Booker	8-17-08	Romanian	8 mos	25 Miner	Mine cars (outside)	Broken ribs, internal injuries.
752 Empire	Fred Duman	8-17-08	American	1 yr	16 Driver	Mine cars	Leg injured.
753 Jed	Pat Sullivan	8-19-08	American	5 yrs	46 Miner	Fall of slate	Ankle mashed.
754 Blackstone No. 1	James Altzer	8-19-08	German	Unk'n	40 Miner	Fall of coal	Head bruised.
755 Pulaski	Peter Bone	8-22-08	Italian	Unk'n	30 Miner	Fall of slate	Arm cut.
756 Klug	Robert Alexander	8-22-08	Negro	5 yrs	22 Driver	Fall of slate	Arm bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
755	McDowell County—	Con't.							
756	Putaski	Joe Laurace	8-22-08	Italian	Unk'n	40	Miner	Fall of slate	Leg fractured, hand
757	Shawnee	Jas. Granotto	8-24-08	Italian	Unk'n	23	Driver	Mine cars	Leg and ankle fractured, hand
758									bruised.
759	Empire	Spencer Watkins	8-25-08	American	5 yrs.	35	Miner	Mine cars	Collar bone fractured.
760	Mohawk	Thomas Grady	8-25-08	American	4 yrs.	25	Miner	Fall of coal	Leg broken.
761	J. B. B. No. 1	W. A. Whitlock	8-26-08	American	20 yrs.	48	Miner	Fall of slate	Leg fractured.
762	Berwind No. 14	John Ralder	8-26-08	Hungarian	2 yrs.	42	Miner	Mine cars	Leg fractured, finger broken.
763	Superior No. 3	Dennis Rose	8-31-08	American	1 day	20	Brakeman	Electric Motor	Hips mashed.
764	Empire	Frank Johnson	9-1-08	Negro	20 yrs.	34	Miner	Fall of coal	Right & left collar bones fract'd
765	Putaski	George Cassell	9-1-08	American	18 mos.	18	Brakeman	Mine cars	Foot injured.
766	Bottom Creek	H. M. Bratcher	9-2-08	Negro	18 mos.	17	Miner	Fall of slate	Finger mashed, necessitating amputation.
767	Elk Ridge	James Morris	9-3-08	Negro	2 mos.	23	Miner	Mine cars	Arm fractured.
768	U. S. No. 2	Hardy Graham	9-3-08	American	1 yr.	28	Miner	Fall of coal	Leg broken.
769	Empire	Andrew Smith	9-8-08	Negro	7 yrs.	25	Miner	Fall of slate	Foot mashed.
770	Empire	Robt. Watkins	9-8-08	Negro	6 yrs.	22	Miner	Fall of slate	Foot mashed.
771	Superior No. 3	A. B. Canterbury	9-9-08	American	3 yrs.	27	Brakeman	Mine cars	Leg broken.
772	U. S. No. 7	Thomas Kellar	9-9-08	Negro	1 yr.	33	Miner	Fall of slate	Arm broken.
773	Houston No. 1	James Smith	9-9-08	Negro	2 wks.	44	Miner	Fall of slate	Foot crushed.
774	Tidewater	Pat Gillispie	9-10-08	American	28 yrs.	39	Miner	Gas Explosion	Head, arm and ears burned.
775	Tidewater	E. D. Woods	9-10-08	Negro	17 yrs.	30	Trackman	Gas Explosion	Head, arm and ears burned.
776	Putaski	C. W. Mallory	9-12-08	American	3 yr.	38	Miner	Fall of coal	Toes mashed.
777	Greenbrier	Fred Grunzer	9-15-08	Slavish	2 yrs.	30	Miner	Fall of coal	Chest bruised.
778	King	Taz Brown	9-15-08	Negro	10 yrs.	43	Shot Firer	Fall of slate	Hip dislocated.
779	Tidewater	Paschal Alampi	9-16-08	Italian	1 yr.	25	Miner	Fall of slate	Foot lacerated.
780	Empire	G. W. Prunty	9-16-08	Negro	20 yrs.	30	Miner	Fall of slate	Arm fractured at wrist.
781	King	Geo. Flipper	9-18-08	Negro	2 yrs.	23	Miner	Fall of slate	Ankle sprained, hip bruised.
782	Empire	George Cox	9-19-08	Negro	5 mos.	36	Loader	Fall of slate	Ankle fractured.
783	McDowell	Wm. Floyd	9-20-08	Negro	10 yrs.	30	Car Dropper	Fell from R. R. car (o. s.)	Leg broken.
784	J. B. B. No. 3	Norman Roberts	9-21-08	American	3 mos.	17	Driver	Fell from mule	Arm broken.
785	Tidewater	Romeo Morley	9-22-08	Italian	1 yr.	33	Miner	Fall of slate	Hip injured.
786	Berwind No. 14	John Cartwright	9-24-08	American	1 yr.	20	Motorman	Electric motor	Arm dislocated.
787	Bottomless	John Mallamas	9-24-08	Italian	4 yrs.	20	Miner	Fall of slate	Head cut, shoulders bruised.
788	Bottomless	Peter Yelliz	9-25-08	Russian	3 mos.	34	Miner	Fall of coal	Arm and leg fractured, face and back bruised.
789	McDowell No. 2	Joe Mangino	10-1-08	Italian	5 yrs.	23	Miner	Fall of coal	Ankle and knee sprained, back injured.

790	Empire	Mike Monitor	10-1-08	Italian	2 yrs	31	Miner	Fall of slate	Right leg fractured, necessitating amputation.
791	Bottom Creek	Burton Moore	10-1-08	Negro	4 yrs	26	Miner	Caught by slate bar	Finger lacerated.
792	Bottom Creek	Alex Coleman	10-3-08	Negro	6 yrs	33	Miner	Fall of slate	Comp. dislocation of ankle joint.
793	Tidewater	Jerry Clements	10-3-08	Negro	5 yrs	26	Miner	Fall of slate	Comp. fracture of leg.
794	Page	McGuffin Delort	10-5-08	American	3 yrs	20	Miner	Mine cars	Leg fractured, two toes mashed off right foot.
795	Marytown	John Satterwhite	10-15-08	Negro	5 mos.	23	Miner	Blown out shot	Face and ears burned.
796	Empire	Sonny Drew	10-20-08	Negro	16 yrs	42	Miner	Fall of coal	Leg fractured.
797	Tidewater	Thomas Giacomo	10-22-08	Italian	17k'n	25	Stateman	Fall of slate	Leg fractured.
798	U. S. No. 11	Albert Moore	10-24-08	American	3 yrs	22	Driver	Mine cars	Chest injured, back and sides bruised.
799	McDowell	Joe Acvions	10-27-08	Italian	2 yrs	22	Miner	Fall of coal	Both bones of right leg broken just above ankle.
800	Roanoke	Josef Forzek	10-29-08	Hungari'n	1 yr	40	Miner	Fall of coal	Shoulder and collar bone fract'd
801	Pulaski	James Liddle	10-30-08	American	2 yrs	15	Switch Boy	Caught between motor and steel rail	Contused wound of left leg.
802	Bottom Creek	Jacob Davis	10-31-08	Negro	17k'n	30	Driver	Mine cars	Laceration of ear and chest, side bruised.
803	Grapevine	Frank Pinkosh	11-1-08	Polish	2 yrs	35	Miner	Fall of coal	Crushed through hips and back.
804	Keystone	Roy Harvey	11-1-08	Negro	3 yrs	26	Miner	Fall of coal	Collar bone fractured.
805	Houston No. 1	John Gunner	11-1-08	Slavish	9 yrs	39	Miner	Mine cars	Ribs and chest bruised.
806	Pulaski	Preacher Bolden	11-4-08	Negro	4 yrs	19	Brakeman	Mine cars	Foot injured.
807	Elkhorn	John Ganga	11-4-08	Hungari'n	8 yrs	30	Miner	Fall of coal	Scalp wound.
808	Lynchburg	Wm. Willis	11-4-08	Negro	2 mos	22	Miner	Fall of coal	Leg broken.
809	Delta	A. P. Arrington	11-5-08	American	8 yrs	40	Miner	Fall of slate	Fracture of right leg, with contusion of ankle.
810	Keystone	Otenis Fuller	11-6-08	Negro	1 yr	15	Door Boy	Thrown from runa'y car	Lacer'd wound back of right ear.
811	U. S. No. 3	Mike Mosselle	11-7-08	Italian	2 yrs	27	Car dropper	Mine cars (outside)	Both bones in left leg broken above ankle.
812	Berwind No. 2	John Campbell	11-12-08	Negro	11 yrs	43	Shot Flier	Mine cars	Left thigh fractured.
813	Cherokee	J. C. Falls	11-16-08	American	17k'n	29	Engineer	Struck by steel beam	Two ribs broken.
814	Bottom Creek	Charles Lobish	11-18-08	Polish	9 mos	20	Miner	Mine cars	All toes & ball of left foot crushed.
815	Imo	Oscar Tillman	11-20-08	Negro	2 yrs	30	Miner	Fall of slate	Body bruised.
816	J. B. B. No. 1	Rolland McCoy	11-21-08	American	17k'n	30	Miner	Fall of slate	Injury to spine.
817	J. B. B. No. 1	Wm. Reynolds	11-24-08	American	2 yrs	33	Miner	Fall of slate	Left ankle broken.
818	Berwind No. 3	Marlin Pruitt	11-24-08	American	6 mos	30	Loader	Mine cars	Arm broken.
819	Berwind No. 3	James A. Stevenson	11-25-08	American	1 yr	19	Brakeman	Mine cars (outside)	Collar bone broken.
820	McDowell No. 2	Harry Pigram	11-28-08	Negro	8 mos.	15	Door Boy	Mine cars	Ends of second and third fingers off left hand.
821	Jed	Wm. Foster	12-1-08	Negro	1 yr	30	Miner	Fall of slate	Right ear cut, head and right shoulder bruised.
822	Bottom Creek	W. W. Kinney	12-1-08	American	10 yrs	30	Miner	Fall of slate	Back broken, skull fractured.
823	King	James Parth	12-3-08	Negro	17k'n	35	Laborer	Gas explosion	Sprained foot.
824	King	James Baroni	12-3-08	Italian	17k'n	33	Laborer	Gas explosion	
825	King	Mike Tols	12-3-08	Italian	17k'n	35	Laborer	Gas explosion	
826	King	Tom Younger	12-3-08	Negro	17k'n	18	Laborer	Gas explosion	
827	Jed	Jack Dotson	12-5-08	Negro	17k'n	19	Laborer	Mine cars	Right leg broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
	<i>McDowell County.</i>								
829	Elk Ridge.	Con'tl. Will Fitzgerald	12-7-08	Negro	10 yrs	35	Laborer	Flying slate	Face cut and chest bruised.
829	Jed	Willard R. Talbot	12-7-08	American	Unk'n	32	Mechanic	Fell from tuppel (outside)	Spinal column injured at base of brain.
830	Empire	Lewis Gary	12-8-08	Negro	2 yrs	17	Driver	Fall of slate	Foot injured.
831	Berwind No. 3	James R. Olier	12-10-08	American	6 mos	18	Brakeman	Mine cars	Right ankle sprained. Body bruised.
832	Poorless.	Fletcher Gibson	12-10-08	Negro	3 wks	18	Laborer	Mine cars	Arm broken.
833	Pando	W. L. Harless	12-12-08	American	5 yrs	28	Trackman	Mine cars	Foot crushed.
834	Elk Ridge	Pete Parsons	12-14-08	Italian	2 yrs	35	Laborer	Fell into Barney hole	Leg broken.
835	Va. & Pocah No. 5	Elias Gumbach	12-14-08	Hungarian	Unk'n	26	Miner	Premature explosion	Scalp wounds.
836	Empire	Sam Bottish	12-14-08	Romanian	3 yrs	22	Miner	Fall of coal	Collar bone, jaw bone in two places and two ribs fractured.
837	Tide-water	Turner Summers	12-15-08	Negro	3 yrs	24	Slaterman	Fall of coal	Leg injured.
838	Keystone	Oscar Hanagan	12-16-08	Dutch	18 mos	28	Miner	Fall of slate	One leg fractured, other one cut.
839	U. S. No. 11	Kelley Hampton	12-16-08	American	5 yrs	23	Miner	Premature explosion	Left elbow, wrist and hand bruised and cut.
840	Empire	Hamp Wayne	12-17-08	American	10 yrs	20	Miner	Fall of slate	Left hip dislocated.
841	Cavy Crockett	E. W. Fowler	12-18-08	American	Unk'n	35	Miner	Fall of coal	Both hands injured.
842	Bottom Creek	Elizah Hileitch	12-19-08	Russian	1 yr	25	Laborer	Fall of slate	Sprained ankle, bruise of right leg and left knee.
843	Lick Branch	Henry Parris	12-20-08	Negro	6 yrs	25	Miner	Explosion of dust	Face and hands burned.
844	Lick Branch	J. D. Hairston	12-20-08	Negro	2 yrs	23	Laborer	Explosion of dust	Face and hands burned.
845	Berwind No. 1	C. Mitchell (Guzhes)	12-20-08	Negro	6 mos	20	Brakeman	Mine cars	Right arm broken, hand lacerated.
846	Black Wolf	Irwin B. Wolf	12-31-08	American	6 mos	24	Mch. Helper	Fall of slate	Mashed through hips.
847	U. S. No. 5	Edward Stead	1-1-09	American	2 yrs	15	Laborer	Mine cars (outside)	Leg cut.
848	Arlington	Guido Pietro	1-2-09	Italian	10 yrs	30	Miner	Fall of coal	Both bones arm fractured, laceration and contusion of hand and wrist.
849	Jed	Jacob S. Henry	1-4-09	American	20 yrs	30	Foreman	Electric motor	Body bruised.
850	Monitor	Mose Johnson	1-5-09	Negro	13 mos	12	Trapper	Mine cars	Arm mashed and lacerated.
851	King	Jno. Satterwhite	1-6-09	Negro	Unk'n	21	Miner	Fall of slate	Hip dislocated.
852	Turkey Gap	N. J. Plaster	1-7-09	American	Unk'n	24	Laborer	Fall of coal (outside)	Hand injured.
853	Bottom Creek	Alex Scopine	1-7-09	German	8 yrs	26	Laborer	Fall of slate	Foot injured.
854	U. S. No. 2	Jno. Labosky	1-8-09	Polish	6 mos	35	Miner	Fall of slate	Leg broken.
855	McDowell	Andrew Patrick	1-9-09	Slavish	5 mos	30	Trackman	Fall of slate	Right foot mashed.
856	U. S. No. 3	Pasquale Teller	1-11-09	Austrian	4 mos	19	Miner	Fall of slate	Leg broken between ankle & knee.

857	Ashland	Joseph Workman	1-11-00	American	7 yrs	30	Miner	Fall of coal	Leg broken.
858	Lick Branch	Cleve H. Bowers	1-12-00	American	11 yrs	24	Miner	Explosion of dust	Contusion over abdomen.
859	Berwind No. 3	Robert Stevenson	1-12-00	American	3 wks.	19	Laborer	Mine cars (outside)	Hand injured, end of finger mashed off.
860	King	Thos. Settlers	1-12-00	Negro	1 yr	20	Car Dropper	Mine cars	Right leg crushed off at middle.
861	Greenbrier	W. H. Holland	1-15-00	American	6 yrs	38	Miner	Fall of slate	Mashed through chest and about head.
861a	Lick Branch	Chas. W. Atkinson	1-15-00	American	16 yrs	38	Foreman	Struck by pole	Fracture of left leg.
862	Bottom Creek	H. L. Stovall	1-15-00	American	1 yr	20	Miner	Fall of slate	Contusion of back, face and hips.
863	Empire	Jno. Sears	1-18-00	Negro	20 yrs	42	Miner	Mine cars	Hip bruised.
864	Pulaski	Lewis Hayes	1-18-00	American	15 days	23	Miner	Fall of slate	Both legs and left arm fract'ed.
865	Turkey Gap	William Waddleton	1-18-00	Negro	Unk'n	23	Miner	Flying coal	Arm fractured.
866	Rossmore	David R. Graves	1-18-00	Negro	2 wks	16	Laborer	Fell off larry (outside)	Comp. fracture of right leg.
867	Berwind No. 3	Cleveland Collins	1-20-00	American	12 mos	22	Mch. Helper	Caught by machine jack	Finger off left hand.
868	Turley Gap	Sam Nambuch	1-21-00	Russian	1 yr	22	Miner	Mine cars	Ankle sprained.
869	Berwind No. 1	Frank Kitten	1-21-00	Roumanian	1 yr	24	Shot Frier	Explosion of shot	Hands burned.
870	Crozer No. 1	Frank Neala	1-23-00	Slavish	Unk'n	24	Laborer	Fall of slate	Left leg broken.
871	Empire	Henry Thaxton	1-25-00	Negro	2 yrs	22	Miner	Fall of slate	Ankle sprained, head cut.
872	Empire	Geo. Reed	1-25-00	Negro	13 yrs	31	Miner	Fall of slate	Four scalp wounds.
873	North Dixon	D. C. Boone	1-27-00	American	Unk'n	25	Blacksmith	Injured by drill press (outside)	Arm broken.
874	Empire	Ham Wayne	1-28-00	American	10 yrs	30	Miner	Fall of slate	Leg fractured, ankle lacerated.
875	Houston No. 1	Daniel McNeal	1-29-00	Negro	2 yrs	23	Laborer	Fall of slate	Skull fractured over eye.
876	Monitor	Wm. E. Reynolds	1-30-00	American	14 yrs	37	Miner	Caught by steam locomotive (outside)	Leg broken, scalp wound.
877	Shamokin	Chas. Potara	2-1-00	Italian	2 yrs	21	Miner	Fall of slate	Leg fractured, thigh.
878	U. S. No. 2	Chas. Bradford	2-2-00	Negro	1 yr	35	Miner	Fall of slate	Leg fractured, scalp wound.
879	Arlington	James Harris	2-2-00	American	15 days	21	Miner	Fall of coal	Thumb mashed, necessitating amputation.
880	Lynchburg	Louis Perry	2-3-00	Italian	8 mos	42	Miner	Fall of coal	Contusion of right knee, leg fractured.
881	King	J. H. Boyd	2-3-00	Negro	2 yrs	30	Miner	Fall of coal	Shoulder and side injured.
882	Berwind No. 1	Tonia Elser	2-4-00	Italian	3 yrs	35	Loader	Mine cars	Contusion of back, left shoulder and right knee.
883	Superior No. 1	Richard C. Tackett	2-5-00	American	6 yrs	24	Driver	Mine cars	Leg bruised, flesh torn.
884	Bottom Creek	Wm. Martin	2-5-00	Negro	24 yrs	24	Miner	Fall of slate	Squeezed through chest.
885	U. S. No. 7	John Jones	2-10-00	American	6 wks.	26	Driver	Mine cars	Bruiised back, lacerated fingers.
886	Pulaski	Geo. H. Morehead	2-10-00	American	6 mos.	21	Laborer	Injured by steam (outs' e)	Foot crushed.
887	Powhatan	Mart Price	2-11-00	American	5 yrs	26	Miner	Fall of slate	Body scalded.
888	Midwest States No. 11	Salvator Spoudia	2-13-00	Italian	Unk'n	33	Loader	Fall of coal	Hip bruised.
889	Elkhorn	J. W. Mitchell	2-13-00	Negro	15 yrs	35	Miner	Fall of coal	Leg broken, back injured.
890	Page	Richard Lipscomb	2-15-00	Negro	Unk'n	22	Miner	Fall of coal	Right leg mashed, scalp wound.
891	Berwind No. 1	Tony Solo	2-16-00	Italian	3 yrs	23	Laborer	Electric motor	Both bones of right arm fractur- ed.
892	Powhatan	Mathis Skalos	2-16-00	Greek	5 mos.	23	Miner	Fall of coal	Body bruised.
893	Empire	Joe Hill	2-17-00	Negro	2 mos.	22	Miner	Fall of slate	Face and ear cut.
894	Big Sandy	Thomas Hardy	2-17-00	American	10 mos.	22	Miner	Fall of slate	Back and hips bruised.
895	Page	Theodore Fisca	2-17-00	Hungarian	2 yrs	28	Miner	Fall of coal	Arm and leg broken.
896	Stone Banks	Thomas Dickinson	2-18-00	Negro	15 yrs	40	Miner	Fall of slate	Both legs fractured.
897	North Dixon	William Foy	2-20-00	Negro	2 yrs	23	Driver	Mine cars	Squeezed through hips.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

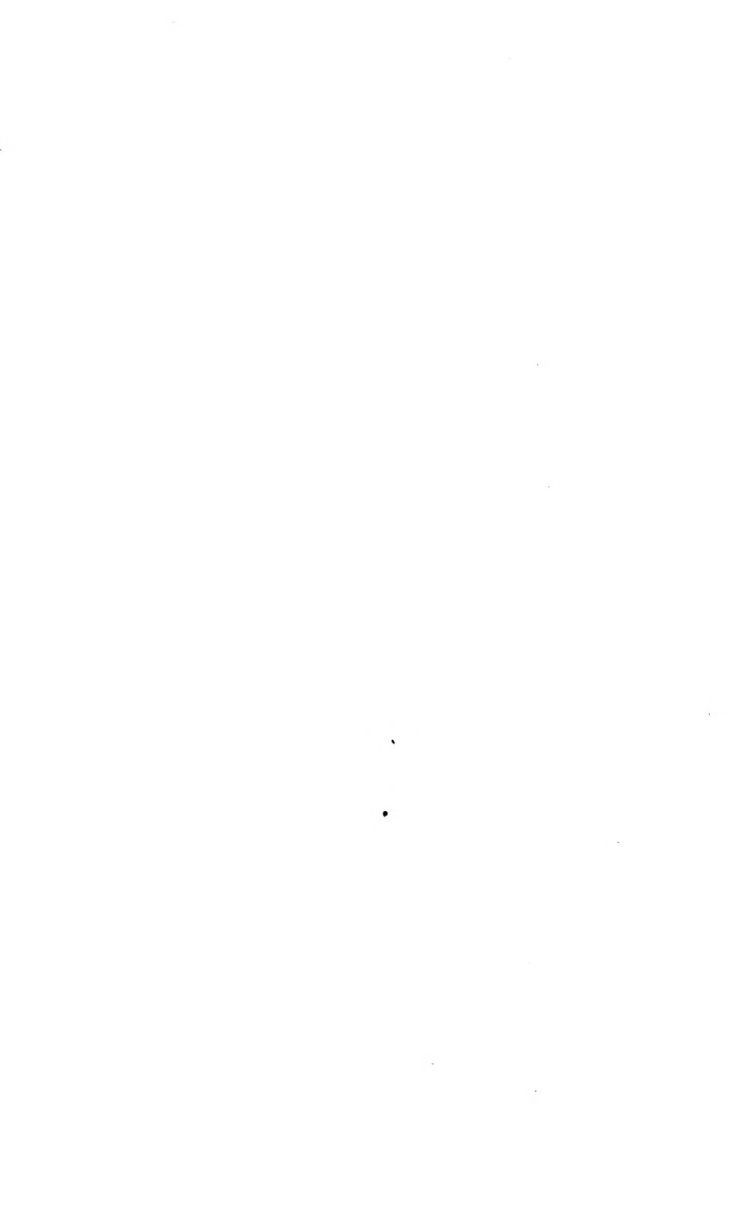
No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
	McDewell County -								
898	North Dixon	Con't.							
899	Curkey Gap	George H. Perry	2-20-00	American	2 yrs	25	Mch. Helper	Electric motor	Foot broken.
900	Roundoke	Geo. Hancock	2-22-00	Negro	23 yrs	43	Miner	Fall of coal	Mashed foot.
		Alex Kottai	2-23-00	Hungarian	Unk'n	33	Miner	Fall of coal	Contusion of shoulders, back and both sides.
901	Berwind No. 3	Mike Grigas	2-27-00	Romanian	3 yrs	27	Loader	Fall of slate	Back and hip bruised, shoulder dislocated.
902	Page No. 1	W. B. Martin	3- 2-00	American	6 mos	34	Miner	Fall of coal	Leg fractured.
903	Va. & Pocah No. 5	George Proski	3- 3-00	Austrian	4 yrs	48	Miner	Mine cars	Wrist dislocated and lamed.
904	Crozer No. 2	John Cardwell	3- 6-00	American	2 yrs	23	Driver	Mine cars	Left arm fractured above wrist.
905	Pulaski No. 1	Sam Strain	3-10-00	Negro	6 yrs	24	Driver	Fall of slate	Back broken.
906	Maher	Edward Patrick	3-11-00	American	2 yrs	28	Miner	Fall of slate	Contusion of back and hip.
907	South Side	Frank Moser	3-12-00	Italian	16 mos	18	Laborer	Fall of slate	Leg broken.
908	Welch	Mervin Francisco	3-12-00	Italian	Unk'n	32	Miner	Fall of slate	Nose broken.
909	Pulaski No. 2	W. L. Carter	3-17-00	American	7 yrs	31	Driver	Mine cars	Foot mashed.
910	Indian Ridge	Joe Maggy	3-19-00	Hungarian	Unk'n	18 mos	25	Miner	Left leg broken.
911	U. S. No. 5	Tony Fisher	3-19-00	Latvian	18 mos	23	Mch. Runner	Fall of coal	Leg broken, head cut.
912	Berwind No. 1	Henry T. Price	3-20-00	Negro	6 mos	16	Trapper	Electric motor	Leg broken, necessitating amputation.
913	Elk Ridge	Sam Newton	3-20-00	Negro	10 yrs	40	Miner	Mine cars	Legs bruised.
914	Shanokin	Rugiere Borosari	3-23-00	Italian	3 yrs	36	Miner	Fall of slate	Left leg fractured.
915	Black Wolf	W. Peyton White	3-24-00	American	Unk'n	20	Miner	Electric motor	Back and hips bruised.
916	Empire	W. F. Saunders	3-25-00	Negro	5 yrs	48	Miner	Fall of slate	Spine injured.
917	King	Frank Harden	3-25-00	Negro	Unk'n	23	Laborer	Fall of slate	Back injured.
918	King	Thom. Hugginbotham	3-26-00	Negro	Unk'n	25	Miner	Fall of slate	Back injured.
919	Pulaski No. 2	Jas. Camady	3-30-00	Negro	1 yr	26	Miner	Fall of slate	Contusion of spine.
920	Crozer No. 2	Antonio Marie	4- 2-00	Hungarian	1 yr	24	Miner	Fall of slate	Face cut.
921	South Side	Henry Hardnett	4- 3-00	Negro	12 days	32	Cager	Jumped from moving cage.	Shoulder broken, internal injuries.
922	Houston No. 1	Oscar Peters	4- 5-00	Negro	Unk'n	15	Switch Boy	Mine cars	Arm broken.
923	Eureka	Miller Walker	4- 5-00	Negro	27	Miner	Fall of coal	Fall of coal	Right leg broken above ankle.
924	McBowell	Louis Gosolz	4- 7-00	Hungarian	8 mos	37	Miner	Fall of coal	Contusion face & chest, body br's d.
925	Pulaski No. 2	Joe Sivoosh	4- 7-00	Hungarian	2 yrs	31	Slattenman	Fall of slate	Left thigh fractured.
926	Indian Ridge	Jess Hancock	4- 8-00	Negro	2 yrs	32	Driver	Fell off coke oven ladder (outside)	Ankle broken.
927	Upland	D. Guntaway	4-12-00	Negro	12 yrs	30	Miner	Fall of slate	Left thigh fractured.
928	Elk Ridge	Nick Glovis	4-14-00	Greek	4 yrs	35	Laborer	Fell off moving car	Contusion of the brain.
929	U. S. No. 11	E. R. Burles (B'r ghs)	4-10-00	American	15 yrs	30	Miner	Premature explosion	Face and hands burned.

930	Middle States No. 11.	Martin Pigash	4-17-09	Hungari'n	35	Miner	Mine cars.	Hips bruised.
931	Crozer No. 11	Andrew Cortenue	4-19-09	Russian	30	Miner	Fall of coal.	Foot crushed.
932	Della	William Hanley	4-20-09	Negro	16	Trapper	Mine cars	Leg mashed between ankle and knee.
933	Lynchburg	Hellias Lee	4-22-09	Greek	2 yrs	Miner	Fall of coal	Leg and hip injured.
934	Powhatan	Luther Hudson	4-23-09	Negro	6 mos	Driver	Mine cars	Foot bruised.
935	U. S. No. 6	Mike Krozitch	4-24-09	Hungari'n	1 yr	Brakeman	Electric motor	Foot cut in half and mashed.
936	Eureka	Pat Lowe	4-26-09	American	2 yrs	Miner	Fall of coal	Left wrist broken, left ankle sprained.
937	Peerless	Link Marshall	4-28-09	Negro	8 mos	Statenman	Fall of slate	Back and foot bruised.
938	Keystone	Fletcher Bolden	4-28-09	Negro	6 yrs	Miner	Fall of slate	Spine injured.
939	Blackwolf	Judge Carter	4-30-09	Negro	Unk'n	Driver	Fall of slate	Leg broken.
940	Central Pocantous.	George W. Pay	4-30-09	English	29 yrs	47 Miner	Fall of coal and slate	Ankle sprained.
941	Peerless	Mose Spicer	5- 3-09	Negro	14 yrs	50 Miner	Fall of coal	Two ribs fractured, eye injured, left leg fractured.
942	Pace	F. K. Tarter	5- 3-09	American	Unk'n	24 Clk Boss	Mine cars (outside)	Foot mashed, toe off.
943	Piney	Lambert Jones	5- 4-09	Negro	3 yrs	21 Miner	Fall of coal and slate	Right leg fractured above ankle.
944	U. S. No. 4	Matthew Paul	5- 4-09	Slavish	Unk'n	19 Laborer	Electric motor	Leg broken.
945	Tidewater	Giovanni Devoll	5- 6-09	Italian	Unk'n	25 Miner	Fall of slate	Left leg fractured, injured internally.
946	King	Robert Davis	5- 9-09	Negro	Unk'n	40 Miner	Flying coal	Lacerated wound of brow and scalp, shoulder bruised.
947	Empire	George Sofany	5-10-09	Rouman'n	2 yrs	24 Miner	Fall of slate	Contused and lacerated wound of left foot.
948	Helena	Geo. Ratcliff	5-10-09	American	9 yrs	19 Miner	Fall of slate	Body bruised.
949	Va. Pocu No. 5.	J. P. Guffin	5-11-09	American	Unk'n	33 Black Smith	Mine cars (outside)	Left leg broken, body bruised.
950	King	S. S. Garland	5-15-09	Negro	Unk'n	45 Miner	Fall of coal	Contused shoulder, ruptured lung.
951	Cirrus No. 1	John Franklin	5-17-09	Negro	5 yrs	25 Laborer	Fall of slate	Hip dislocated.
952	Bottom Creek	Louis Abruzzi	5-18-09	Italian	Unk'n	20 Miner	Fall of slate	Leg injured.
953	Indian Ridge	Mansey Turner	5-19-09	Negro	2 yrs	22 Miner	Fall of coal	Leg, ankle and foot bruised.
954	Gilliam	James O. Bond	5-21-09	American	Unk'n	30 Miner	Fall of coal	Leg fractured above ankle.
955	Elk Ridge	Sander Price	5-22-09	Negro	10 yrs	30 Miner	Fall of coal	Thigh lacerated and bruised.
956	North Fork	Robert Wilson	5-27-09	American	3 yrs	23 Miner	Fall of coal	Scalp wound, leg fractured.
957	Middle States No. 11	Douglas Martin	5-28-09	American	7 mos	31 Miner	Premature explosion	Face and hands injured.
958	Peerless	Wm. Turner	5-29-09	Negro	2 mos	14 Coupler	Mine cars (outside)	Cut on leg.
959	Greenbrier	Lloyd Crawford	5-31-09	American	3 yrs	15 Trapper	Mine cars	Arm cut.
960	McDowell	B. Fitz	5-31-09	Negro	5 mos	21 Driver	Mine cars	Foot bruised.
961	North Side	R. E. Jackson	6- 2-09	Italian	6 mos	22 Miner	Fall of coal	Bruise and laceration of foot.
962	Ashtand	Gordon Moss	6- 4-09	Negro	2 yrs	32 Mach. Helper	Gas explosion	Face and hands burned.
963	Page No. 2	Nick Houston	6- 4-09	Negro	4 yrs	18 Laborer	Electric motor	Foot and hands.
964	South Side	August Winterfield	6- 5-09	Negro	2 yrs	62 Miner	Fall of slate	Leg and arm fractured.
965	Empire	Joe Fumhill	6-10-09	German	Unk'n	Loader	Fall of slate	Hip fractured.
966	King	Mike Gressh	6-14-09	Hungari'n	4 mos	26 Miner	Fall of slate	Right foot mashed, necessitating amputation at ankle.
967	U. S. No. 7	Geo. Stuart	6-14-09	Negro	Unk'n	23 Laborer	Caught between elevator and casing (outside)	Right ankle broken.
968	King	Charles Younce	6-15-09	American	2 mos	46 Spragger	Mine cars	Contused thigh.
969	Turkey Gap	Fred H. Dawn	6-15-09	American	3 yrs	28 Miner	Fall of slate	Comp. fracture of thigh.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>McDonnell County.</i>									
971	Middle States	Con't.	6-16-09	Italian	Unk'n	25	Miner	Premature explosion.	Confused wound on face & hand.
972	Lick Branch	Sully Vincenzo	6-17-09	Negro	5 yrs.	45	Miner	Fall of slate	Back sprained.
973	U. S. No. 4	E. B. Wright	6-17-09	Negro	3 yrs.	27	Driver	Mine cars	Leg broken just above ankle.
974	Keystone	George Ross	6-17-09	Negro	1 mo.	14	Door boy	Mine cars	Left hand crushed.
975	Cherokee	William H. Franklin	6-18-09	Hungari'n	Unk'n	38	Miner	Blown out shot.	Face, neck, shoulders, hands and arms burned.
976	Pinney	John Morrison	6-21-09	Negro	2 mos.	25	Miner	Fall of slate	Laceration of foot, heel crushed.
977	Page	Wm. Carnish	6-21-09	Russian	Unk'n	35	Miner	Fall of slate	Back bruised and sprained.
978	Page	Chas. Robertson	6-22-09	Negro	1 yr.	25	Miner	Fall of slate	Hip dislocated, leg fractured above ankle.
979	Elk Ridge	Geo. Watson	6-23-09	Negro	2 yrs.	22	Driver	Mine cars	Back and neck strained.
980	North Side Dix.	Houston Lynch	6-24-09	Negro	Unk'n	30	Laborer	Gas Explosion	Face and hands burned.
981	North Side Dix.	Poca Jas. Shipp	6-24-09	Negro	Unk'n	28	Laborer	Gas Explosion	Face and hands burned.
982	North Side Dix.	Belford Finney	6-24-09	Negro	Unk'n	25	Laborer	Gas Explosion	Face and hands burned.
983	Peerless	Tera Payne	6-25-09	Negro	14 yrs.	34	Slatenian	Fall of slate	Left hand cut off.
984	Gilliam	Joseph Donelus	6-25-09	Hungari'n	2 yrs.	35	Miner	Mine cars	Hips bruised, internal injuries.
985	Berwind No. 1	Henry T. Logsdon	6-30-09	American	6 yrs.	21	Brakeman	Electric motor	Foot mashed, necessitating amputation.
986	Arlington	Racco Follari	6-30-09	Italian	Unk'n	25	Miner	Fall of slate	Fracture of three ribs, back and hips injured.
<i>Logan County.</i>									
987	Wilson	C. Smith	7-7-08	American	Unk'n		Miner	Flying coal	Leg fractured.
988	U. S. C. & O. No. 2	William Jones	7-8-08	Negro	1 yr.	28	Driver	Fall of slate	Skull broken above ankle.
989	U. S. C. & O. No. 2	John Novak	7-10-08	Hungari'n	Unk'n	13	Loader	Blast of powder	Head cut, face, arm and shoulder burned.
990	Monitor	George Edwards	7-16-08	English	2 yrs.	23	Spragger	Caught by machine truck	Toe squeezed.
991	No. 2	Chas. Billock	8-3-08	German	Unk'n	18	Loader	Fall of coal	Leg broken just above ankle.
992	Logan	E. R. Elswick	9-10-08	American	3 yrs.	30	Miner	Fall of slate	Leg fractured.
993	The Gay	Jubal Lester	10-2-08	American	3 yrs.	23	Miner	Blown out shot	Eye injured, hand & face burn'd.
994	U. S. C. & O. No. 1	Lon Gore	10-19-08	American	Unk'n	22	Driver	Mine cars	Wrist dislocated, arm broken.
995	Johnson	Lane Hale	12-5-08	American	2 yrs.	28	Miner	Mine cars	Foot sprained.
996	Johnson	Ham McDonald	12-5-08	American	1 yr.	30	Miner	Mine cars	Foot sprained.
997	Johnson	George Neece	12-5-08	American	2 yrs.	30	Miner	Mine cars	Foot sprained.
998	Johnson	Louie Connall	2-1-09	Italian	5 yrs.	23	Mach. Runner	Mining machinery	Two fingers lacerated, necessitating amputation.
999	U. S. C. & O. No. 2	Greyaonie Treacpie	2-6-09	Italian	Unk'n	17	Trapper	Mine cars	Mashed through chest, injured internally.

1001 The Gay	Philip Doss	4-5-00	American	6 yrs	23 Loader	Mine cars	End of finger crushed.
1002 Ethel No. 2	Robert Johnson	4-19-00	Negro	Unk'n	18 Miner	Fall of slate	Head and back bruised.
1002 Monitor	Kramstzy Zukonski	5-1-00	Polish	3 yrs	45 Miner	Mine cars	Hips squeezed.
<i>Mingo County.</i>							
1003 Chattahoo	James Miller	7-11-08	American	2 yrs	30 Hach. helper	Fall of coal	Back injured.
1004 Whitfrede	William Carter	7-13-08	American	5 yrs	30 Laborer	Fall of slate	Both bones of right leg fractured.
1005 Grapevine	Marcus L. Millem	7-14-08	American	11 yrs	21 Miner	Mine cars	Internal injuries.
1006 Red Jacket	Nicholas Patrovitch	7-23-08	Hungari'n	7 mos	36 Laborer	Mine cars (outside)	Leg bruised.
1007 Rutherford	John Williamson	7-24-08	American	5 yrs	28 Driver	Mine cars	Ear injured.
1008 Thacker No. 3	Geo. Washien	7-29-08	Hungari'n	Unk'n	28 Miner	Fell on pick	Chest injured.
1009 Thacker No. 3	Ego Vance	7-29-08	American	4 yrs	23 Driver	Fall of slate	Leg broken.
1010 Rutherford	Rock Bergantine	8-8-08	Italian	18 mos	26 Miner	Runaway car on incline (outside)	Collar bone broken, legs bruised.
1011 Rutherford	Tony Conty	8-8-08	Italian	2 yrs	26 Miner	Mine car (outside)	Cut and bruised about face.
1012 Thacker No. 2	Carrol Pachi	9-1-08	Italian	4 mos	23 Loader	Fall of slate	Leg broken.
1013 Thacker No. 3	Vest Smith	9-10-08	Negro	14 mos	26 Driver	Mine cars	Knee injured, body bruised.
1014 Lynn	George Hall	10-7-08	American	Unk'n	Loader	Explosion of powder	Face and body burned.
1015 Lynn	Wm. Ratcliff	10-7-08	American	Unk'n	Loader	Explosion of powder	Face and body burned.
1016 Glen Alum No. 2	Charley Yost	10-7-08	American	10 yrs	26 Mach. helper	Fall of slate	Leg broken.
1017 Thacker No. 10	Nick Pan	10-12-08	Italian	3 yrs	34 Miner	Fall of slate	Foot crushed.
1018 Goodman	Green Hensley	10-30-08	American	1 yr	40 Shot firer	Premature explosion	Head and legs mashed.
1019 Logan	Eustace Lawson	11-12-08	American	4 yrs	29 Miner	Fall of slate	Back injured.
1020 Red Jacket	Andrew Katona	11-16-08	Hungari'n	10 mos	49 Laborer	Mine car (outside)	Scalp wound.
1021 Thacker No. 3	Mike Cornelius	12-1-08	Russian	15 mos	33 Laborer	Premature explosion	Face and right hand burned.
1022 Thacker No. 3	Joseph Marty	12-18-08	Hungari'n	1 yr	48 Loader	Fall of coal	Leg broken in two places.
1023 Lynn	Frank Garbac	3-2-09	Hungari'n	2 yrs	32 Miner	Fall of coal	Knee crushed.
1024 War Eagle	William Abbs	3-11-09	English	30 yrs	62 Engineer	Struck by ratchet lever, (outside)	Scalp wound.
1025 Thacker No. 3	Biaggio Marcio	3-20-09	Italian	5 yrs	40 Miner	Premature explosion	Wound on head.
1026 Thacker No. 2	Rudolph Kenney	3-23-09	American	14 mos	18 Brakeman	Electric motor	Foot mashed.
1027 Williamson No. 3	Thomas Hammond	4-5-00	Negro	19 yrs	38 Mach. helper	Fall of slate	Hip bruised, back sprained.
1028 Thacker No. 3	Bird Hayes	4-19-00	Negro	4 yrs	16 Trapper	Mine cars	Foot mashed, two toes amputated.
1029 Red Jacket	Robert Smith	4-20-00	Negro	6 mos	25 Driver	Mine cars	Shoulders, chest & back bruised.
1030 Chattahoo	Frank Banfield	5-13-00	American	2 yrs	22 Driver	Fall of slate	Arms, breast & legs bruised.
1031 Logan	William Baldwin	6-17-00	American	3 yrs	28 Miner	Fall of slate	Mashed through back & hips.
1032 Howard	Thomas Blair	6-11-00	American	15 yrs	35 Mch. runner	Fall of coal	Spine injured.



FATAL ACCIDENTS

For the year ending June 30th, 1909.



BROOKE COUNTY.

February 23, 1909.—Peter Konovitch, 21, Russian, Beech Bottom Mine. Was electrocuted by accidentally coming in contact with a charged wire.

June 21, 1909.—Andy Saladi, 40, Lewis Mine No. 1. While placing coal on his car, came in contact with trolley wire and was electrocuted.

MARION COUNTY.

July 30, 1908.—Meliam Rubish, 24, Polish, Monongah Mine No. 8. He disobeyed the mine discipline to the extent of refusing to timber his place after having been told by the shot-firer. A fall of slate, weighing one and one-half tons fell on him, causing instant death.

August 8, 1908.—John Harlo, 45, Slavish, Pennois Mine. While watching two other men work, he was suddenly caught by a fall of coal and slate and killed.

August 8, 1908.—Paul Karnful, 50, Slavish, Pennois Mine. Was killed by a sudden fall of slate, while watching two other men work.

August 11, 1908.—Augustine Desista, 19, Italian, Highland Mine. He persisted in digging at a stump, against the advice of his partner, when it suddenly turned over, bringing the roof coal and draw slate with it, caught Desista, killing him instantly.

August 17, 1908.—Fliga Cirtic, 18, Austrian, Chiefton Mine. He and his partner had just finished loading a car, when about twelve inches of draw slate fell, crushing Cirtic to the extent that he died soon after the accident.

September 10, 1908.—Feodor Rason, 37, Italian. Chatham No. 1 Mine. This person was mining coal when a pot of coal and slate fell, without warning, catching him, resulting in his death.

September 10, 1908.—Benniman Rason, 35, Italian. Chatham No. 1 Mine. Was mining coal, when coal and slate suddenly fell, causing his death.

September 21, 1908.—Toney Matzot, 18, Italian. Shaft Mine. The deceased started to go from his place or No. 8 pillar to No. 9 where the other men were working, he got near the small stump that had been left on No. 9, when suddenly the stump, roof coal and soft slate fell on him, causing instant death.

October 22, 1908.—Vito Pinchto, 34, Italian, New England Mine. While slatemens were trying to secure the top, it fell, catching Pinchto causing his death. One man was non-fatally injured in this accident.

December 9, 1908.—John Matusky, 28, Slavish, Chiefton Mine. He was instructed by the mine boss not to mine his stump all the way through in the bottom, and when found under the fall it was believed that he, Matusky, had mined off the part of the stump that he had been told to leave for protection. Had the instructions been carried out the accident need not have happened.

March 30, 1909.—Francesco Parisi, 31, Italian, Kingmont Mine. This man was breaking a room off on second butt air course. He fired a shot

and went up on the fallen coal immediately afterward in the smoke and was caught by a fall of slate.

April 11, 1909.—Sam Meallage, 24, Austrian, Chatham No. 1 Mine. This man was cleaning slate in room on Eighth left heading. A piece of slate suddenly fell, catching him. He was taken to the Miners' Hospital at Fairmont where he died the next day.

April 15, 1909.—Charles McDonald, Air Shaft No. 3. He was coming out of Air Shaft when natural gas exploded killing him.

April 15, 1909.—Robert Maynard, Air Shaft No. 3. Was killed by an explosion of natural gas, when coming out of air shaft.

April 15, 1909.—Lonnie Cook, Air Shaft No. 3. When coming out of Air Shaft was killed by an explosion of natural gas.

April 29, 1909.—J. C. Holcomb, 58, American, Chatham No. 1 Mine. He and his fellow workmen were working on pillar stumps. They had tested the roof in their working place, and were unable to pull down all of the roof slate. Shortly afterward their trip empties came in, they went out and were pushing the car over the switch, when slate fell without any warning, catching Holcomb. Zeekus escaped without an injury.

May 27, 1909.—Tom Kottich, 55, Austrian, Chatham No. 1 Mine. He had loaded two cars, and was working alone. The driver on that heading states that he was about 40 feet from Kottich when the fall came without any warning, which resulted in instant death.

June 10, 1909.—Andrew Hanlon, 29, Irish, Federal Mine. This man went down in motor chute with horse in dark, he was on his way to stable at 4:20 P. M. There was a red light on the rear of trip in front of him and red light on front of trip back of him. He was told to get out of the way of the electric motor, but failed to do so. Was injured June 10, 1909, and died June 22, 1909.

June 10, 1909.—David Scott Stewart, 27, American, Parker Run Mine. He fired a butt shot in an entry, he then pushed the mining car up to the breast of coal; on discovering the shot had hung, he stepped between the breast of coal and the mine car and began to dig at said butt shot which fell suddenly and squeezed him against the mine car, resulting in his death on June 12, 1909.

June 24, 1909.—Ross Panetta, 26, Italian, Highland Mine. He was working pick work on 1st South Heading at top of heading and had turned a room off the heading to drive it through the barrier pillar, and was in 16 feet. He had set his tools up against the face of his place and was coming out of it, when in the neck of room, 3 feet from line of

MARSHALL COUNTY.

heading, a large piece of slate fell on him, killing him instantly.

September 30, 1908.—Robert Williams, 19, American. Hitchman Mine. He was working with his brother in a room, the brother left the room to help another brother on a mining machine, and after they had cut one place he returned to the room and found this young man lying under the stone dead.

HARRISON COUNTY.

July 20, 1908.—Steve Miller, 19, Austrian, Fulmer No. 1 Mine. This man had just fired a shot and proceeded to load his wagon before he pulled down some loose rock about two and one-half inches thick, which fell on him before he got wagon finished. He died July 31, 1908.

August 8, 1908.—Gibor Isbarig, Hungarian, Viropa Mine. This man worked in left air course off 1st south face; he had been working but a few minutes when the slate fell crushing his head so badly that he died shortly after he was taken out of the mine. Had the victim obeyed rule 17 of the mine rules, a copy of which he had, or had used the intelligence that his more than one year's experience had given him, he would have tested the roof the first thing on entering working place.

August 13, 1908.—Wayne Greynolds, 15, American, Pitcairn Mine. While trying to get out of way of car, it passed over him, killing him instantly.

August 26, 1908.—G. B. Spangler, 38, American, Harold Mine. The supposition is that he ventured back under the head coal for the purpose of removing a prop which was still standing at the back side, when the coal fell, killing him instantly. He was an experienced miner, and this accident was unlooked for.

October 8, 1908.—George Kurtz, 38, American, Cork Mine. He was doing pick work and had made a mining of coal which dropped upon him, causing his death about four hours later.

November 27, 1908.—Ira E. Hurst, 27, American, Waldo Mine. When found he was lying in cross cut with head on rail between wheels of second car. He was bringing a trip of 13 loaded cars from third right heading driving three horses. Cause not known. It is advanced that presumably he was kicked by a wheel horse.

December 2, 1908.—Wade Crislip, 22, American, Interstate Mine. While riding a car going into his room it became derailed, knocking out a prop on the left side of the track, letting a piece of slate fall down which caused his death.

March 6, 1909.—Philip Panea, 27, Italian, Gypsy Mine. He was digging on a stump, when he had struck but a few licks when the stump fell on him mashing his head, killing him instantly.

May 10, 1909.—Mike Tarzio, 35, Italian, Gypsy Mine. He was working on slate and had gone in No. 10 room on 2nd right air course to clean up a small fall when some slate fell on him, resulting in his death a few hours later.

May 18, 1909.—Joe Fegada, 45, Hungarian, Perry Mine. He had been mining a stump which fell on him, and before aid could be secured, a fall of draw slate came, crushing the life out of him.

May 19, 1908.—Pete Gallion, 34, Italian, Fall Run Mine. Had been mining a stump and had finished with the exception of a few lumps to fill his car, when he was caught by a fall of slate, causing his death.

May 25, 1909.—Sam Joseph, 20, Syrian, Meadowbrock Mine. He was boring a hole on the left rib when the slate fell on him, killing him.

June 28, 1909.—Joe Penor, 28, Austrian, Viropa Mine. He was standing by the side of the car leveling the coal when a lump of coal on the rib rolled down over the slate on him, mashing him through chest and abdomen. He died at the Miners' Hospital July 25, 1909.

UPSHUR COUNTY.

October 3, 1908.—Angelo Corobotte, 47, Italian, Red Rock No. 1 Mine. Was pushing water car on side track leading to second right entry, motor struck water car knocking it on him, killing him instantly.

January 21, 1909.—James A. Wallace, 26, American, Red Rock Mine. He was loading car when slate fell knocking him down, killing him instantly.

BARBOUR COUNTY.

February 18, 1909.—Joe Poliskey, 35, Polish, Berryburg Mine. He was tightening nut on pump, the wrench slipped, and his coat was caught in the cog wheels pulling his arm in. He was taken to the Miners' Hospital where he died March 5, 1909.

PRESTON COUNTY.

October 14, 1908.—Patsy Knobly, 28, Italian, Masontown, No. 6 Mine. He left his working place and stepped between the car fifty feet from his working face; he was crushed so severely that he died a few hours after the accident.

October 27, 1908.—Philip Mitter, 20, American, Austen No. 1 Mine. He had finished his days' work, and started out, but stopped to talk with a fellow workman, when he was caught by a fall of slate, resulting in instant death.

January 3, 1909.—Pete Rovelli, 26, Italian, Masontown, No. 6 Mine. A motor runner. He started motor down a grade at a speed of twenty-five miles an hour, and as he was going around a curve the trolley pole left the wire, knocking him off the motor, running over him, the result of which was instant death.

March 18, 1909.—Ray Rohr, 23, American, No. 2 or Bretz. He was fastened between car and foundation, while engaged with two other men in dropping an empty car over dump. The injured party lived six hours after being hurt.

MINERAL COUNTY.

August 27, 1908.—William A. Brathwait, 29, American, Montgomery Run No. 19 Mine. Was killed instantly by a blown through shot from the next room.

September 1, 1908.—Joe Wilhelm, 31, American, Ott No. 20 Mine. He was laying a piece of track when a large rock fell on him, crushing the life out of him instantly.

September 11, 1908.—Albert Warwick, 45, American, No. 6 Mine. He was in the act of chopping a prop in a place that had been abandoned two days before, when the roof caved in, burying him about 1:30 P. M. He was taken out about 3:30 P. M.

September 18, 1908.—Harley Harris, 15, American, Mine No. 10. He was run over and killed by a loaded car while going from one trap door to the other.

January 26, 1909.—Robt. W. Hudson, 17, American, Montgomery Run No. 19 Mine. Was run over by car, and died ten hours later.

RANDOLPH COUNTY.

January 10, 1909.—Ray Proudfoot, 19, American, Weaver No. 1 Mine. He attempted to jump on a car from the front, fell and was dragged a long way. He lived but two hours after the accident.

TUCKER COUNTY.

October 1, 1908.—Larry Covalitis, 34, Lithuanian, Thomas No. 34 Mine. Was killed by fall of roof. Had insurance to the amount of \$200.

October 16, 1908.—William Kalnotsky, 37, Thomas No. 34 Mine. He fell off of ascending cage, and was injured to the extent that he died an hour later.

February 10, 1909.—Joseph Wotara, 28, Italian. Douglas No. 5 Mine. While mining, coal fell on him, crushing his head. Death was instantaneous. His brother, Salvador, was non-fatally injured at the same time.

MASON COUNTY.

November 5, 1903.—Thomas Farley, 52, American, Linden Mine. He was killed by flying coal. The accident occurred at 4:30 P. M. and he died 10:30.

PUTNAM COUNTY.

July 18, 1908.—Augustus C. Stephens, 55, American, Black Betsy No. 2 Mine. Was injured by fall of coal while shoveling from under the loose slate. He died July 27, 1908.

January 14, 1909.—Isaac Smith, 30, American, Oak Forest Mine. He was cutting coal, failed to obey warning to move, finally coal fell injuring him, and he died two days later, January 16, 1909.

April 15, 1909. Stanhope Taylor, 32, Negro, Manilla Mine. He was found dead at the face of his room a few minutes after the accident. The supposition is that he had gone back on a shot.

FAYETTE COUNTY.

July 1, 1908.—Jack Lanskie, 35, Polish, Scarbro Mine. He came in contact with a live wire, and was electrocuted.

July 7, 1908.—Cecil Buster, 18, Negro, No. 2 South Mine. This man was lying beside the motor track and had fallen asleep. His right leg having been on the track was run over by in-going locomotive and badly lacerated. He was taken to Charleston General Hospital on day of accident, where he died the next day.

July 17, 1908.—Marco Marinkov, 45, Polish, Carlisle Mine. He was, judging from the position in which he was found, under-cutting the top coal when it fell, killing him.

July 18, 1908.—Liven Lasinki, 22, Russian, Brooklyn Mine. This man

was loading the last car, was in a hurry, neglecting to properly examine the roof and a piece of slate fell on him injuring him in such a way that he died in a half hour.

October 27, 1908.—John Dalton, 15, American, Star Mine. He was on front end of a trip of empty mine cars and fell off, one car passing over him. He lived four hours after the accident.

August 25, 1908.—Paul Adams, 35, Russian, Kohinoor Mine. While wet with rain, came in contact with live trolley wire outside of mine. Death was instantaneous.

August 29, 1908.—Joe Deforle, 35, Italian, No. 2 North Mine. He was riding out of the mine on the rear end of a motor trip when he struck his head against an overcast, which threw him from the car and rendered him unconscious. He was lying on the motor road in this condition when the gathering locomotive came along, crushing him to death.

September 4, 1908.—Sam Moody, 16, American, Cliff Top No. 1 Mine. This boy worked with his father, and was in the habit of leaving his work and jumping on running cars; he was warned, by his father, at this particular time to stop this practice, but refused to obey. He fell under the cars, breaking his neck instantly.

September 5, 1908.—Garfield Peake, 24, Negro, Stuart Mine. He was bringing a mule up in the cage, neglecting to fasten the gate of the cage the mule crowded him off, the fall resulting in his death.

September 5, 1908.—Julius Volgae, 36, Austrian, Rush Run Mine. While leaving his work on the way out of mine, slate from the roof unexpectedly fell on him, crushing him from which he died in thirty minutes.

September 9, 1908.—Price Mitchell, 42, Negro, Stone Cliff Mine. Was killed instantly, while mining, by fall of kettle bottom.

September 9, 1908.—Henry Carter, 23, Negro, Stuart Mine. He sprang on the bucket as it was lifted from the scaffold 150 feet down where he was working. This caused the bucket to swing, so that it caught the upper timbers; he was knocked off the bucket and fell about 50 feet, resulting in his death.

September 15, 1908.—Joe Stoney, 22, Polish, Wingrove Mine. He was working at pit bottom coupling the empty cars, and it is supposed that he was electrocuted by coming in contact with electric wires.

September 22, 1908.—Robert Smith, 16, American, Harvey Mine. While winding a windlass the crank slipped, striking his skull, causing his death.

September 23, 1908.—Edgar Withrow, 17, American, Ridgeview Mine. Fell from car which ran over him, which resulted in instant death.

September 25, 1908.—Cornelius Bird, 45, Negro, No. 2 South Mine. Attempted to climb over top of mining machine with crow bar in his hand, the crow bar fell and caught in the chains of the machine, throwing him with such force, causing instant death.

September 26, 1908.—John Jukis, 36, Polish, Whipple Mine. Was injured, while mining coal fifteen inches from roof, by fall of top coal. Died October 2, 1908.

September 28, 1908.—James Brown, 27, American, Dunloop No. 2 Mine. This man was working on the 4th right entry taking out the chain pillar when a kettle bottom fell on him, killing him instantly.

October 9, 1908.—Toney McNitch, 30, Russian, Brooklyn Mine. This man had just completed his day's work and going to the tool station became entangled in the wire. The shock killed him instantly.

October 12, 1908.—Lundy Fox, 25, American, Sunny Side Mine. It is not known how he came in contact with wire as no one was present and it was about an hour before body was discovered. He had moved a machine into 1st left off Newton entry and was on his way out of Newton entry at time of accident.

October 3, 1908.—Willie Krouse, 17, American, Minden No. 3 Mine. In his attempt to jump on front end of motor as had always been his custom, fell under the motor and was crushed to death.

October 17, 1908.—Delbert Walker, 17, American, Layland Mine.—He was playing with the motor right over the mouth pit (in the motor barn) one foot on one rail and the other foot on the other rail; he deliberately reversed the motor and turned the controller around thus running the motor against him, crushing his leg, resulting in his death on October 20, 1908.

October 19, 1908.—Vete Angelo, 28, Italian, Beech Creek Mine. He knocked out several of the props, thinking they were going to be in the way of parting. Shortly after he began to dig coal, a "kettle-shaped" stone fell striking his neck, causing his death December 1, 1908.

October 23, 1908.—Elijah Blevans, 20, American, Dunglen Mine. Was injured, by fall of slate, while mining coal. He died the next day.

November 7, 1908.—Robert Jennison, 45, Negro, Sugar Creek No. 2 Mine. Was working alone on a pillar, when a piece of slate weighing about a ton fell on him, resulting in his death about fifteen minutes from the time of the accident.

November 3, 1908.—Wm. T. Brizendine, 32, American, Meadow Fork Mine. This man's skull was crushed by a premature shot.

December 4, 1908.—Calvon Coffman, 18, American, Minden No. 5 Mine. In jumping from the front end of a motor fell under it and was injured in such a manner that he died shortly afterwards.

December 28, 1908.—Henry Smith, 19, Negro, Sun Mine. Was running larry when he fell off, it passed over him, killing him instantly.

December 29, 1908.—Ed. Kassuth, 16, American, Keeney Mine. Fell off car, breaking his neck.

January 30, 1909.—Alexander Holliday, 30, American, Keeney Mine. This man's skull was crushed by fall of slate.

February 1, 1909.—Manuel Holloway, 45, Negro, Blume Mine. He had just entered his room and started to load car when fall of slate came. He died on way to hospital.

February 10, 1909.—Raymond Mitta, 40, Polish, Carlisle Mine. Was injured by an explosion of powder. He was taken to hospital immediately after the accident, where he died February 18, 1909.

March 3, 1909.—James Gumbush, 35, Hungarian, Collins No. 2 Mine. While mining from cut, against instructions, was smothered to death by a fall of top coal and slate.

March 6, 1909.—Fred E. Goode, 20, American, Boone Mine. Was standing at the mouth of room No. 12 at 11:30 A. M. attempted to jump between cars of a loaded trip that a motor was pulling out of the mine,

was caught between rib and side of last car, and rolled so badly that he died at 4:00 P. M.

March 17, 1909.—C. E. Wellman, 15, American, Minden No. 5 Mine. This boy lay down about 6 or 8 feet inside the trap-door with his feet over one rail and head over the other, the motorman came along with a loaded trip, and ran over him, killing him instantly.

March 18, 1909.—John Coole, 70, Greek, Diamond Mine. Was crushed to death while walking on loaded track, by loaded car running over him.

March 24, 1909.—Ambrose Proctor, 19, American, Sun Mine. While loading coal in car a piece of slate fell from roof striking him across the back and causing injuries, resulting in death shortly afterwards.

March 29, 1909.—Robert Hefner, 55, Negro, Blume Mine. Was run down by car of slate and instantly killed.

March 31, 1909.—Sam Melhorn, Andy Melhorn, William Smith, John Bloomfield, and Charles Jones were killed by an explosion caused by an overcharge of dynamite. A. D. Sydenstricker was also injured in the same manner and same date, death resulting on April 5, 1909.

April 6, 1909.—Calvin Eades, 31, American, Mt. Carbon Mine. A runaway car on incline, (caused by coupling pin coming out,) struck him on the head and arm, causing death.

April 6, 1909.—Thomas Toney, 43, American, Mt. Carbon Mine. Car ran off on incline and caught him on tippie, killing him.

April 13, 1909.—Henry Archer, 25, Negro, Ansted Mine. This man was working on a pillar on No. 6 entry, when a piece of draw slate fell, killing him instantly.

April 20, 1909.—H. F. Daniels, 38, American, Laura Mine. The deceased had been instructed to set posts at 10:30 A. M. same date, but ignored instructions and was killed by fall of slate while loading car of coal.

April 28, 1909.—Walter Copeland, 28, American, Ridgeview Mine. He was working under some bad slate, when it fell, breaking his back, resulting in his death May 5, 1909.

April 30, 1909.—Ludwig Josa, 22, Polish, Lunglen No. 2 Mine. False slip in top caused slate to fall, causing his death.

May 1, 1909.—Theodore Syneck, 29, Russian, Jones No. 3 Mine. About thirty minutes after taking out prop, rock fell, killing him instantly.

May 5, 1909. Charles Adams, 32, American, Minden No. 2 Mine. Was hauling loaded car, and in going around a curve, the car knocked out a post causing slate to fall, causing his death.

June 3, 1909.—Joseph Lee, 40, Negro, Laurel Mine. Fall of draw slate while setting props, caused instant death.

June 21, 1909.—John J. Spiers, 19, American, Minden No. 5 Mine. Supposition is that he fell off the front end of motor. He was dead when taken from under the motor.

June 30, 1909.—William Walker, 33, Negro, Sun Mine. Fell across live wire resulting in instantaneous death.

KANAWHA COUNTY.

August 4, 1908.—Pete Saunders, 30, Negro, Hugheston No. 2 Mine. Was injured by fall of coal. He was taken to Sheltering Arms Hospital, where he died August 5, 1908.

August 6, 1908.—Chap Asbury, 48, American, West Mine. While pulling the top coal down he knocked out a prop at the face, and continued loading his car before resetting the prop; the slate fell, resulting in his death.

August 12, 1908.—Lianus Williams, 15, American, Kayford Mine. He and his father, D. J. Williams, were widening an entry for the purpose of making a side track in the slope part of the mine, when a piece of coal fell on them. The former was killed, the latter was non-fatally injured.

August 19, 1908.—Justin Dumansky, 45, Hungarian, Republic No. 1 Mine. Was doing pick work, the top coal fell crushing his skull and killing him instantly.

August 28, 1908.—Clarence Thompson, 17, American, Paint Creek Mine. Lost his footing while trying to jump on a mine car, and was run over by same, which caused his death.

September 11, 1908.—R. C. Cowan, 21, American, Red Warrior Mine. He was helping to under-cut coal with an electric coal mining machine. They had finished the last run in the place they were cutting and were getting ready to load their machine, when he tripped a post and fell, causing a fall of slate, killing him instantly.

September 26, 1908.—Wincas Cerkmas, 38, Polish, United Splint Mine. Had begun to load coal when fall of slate came killing him instantly.

October 8, 1908.—B. F. O'Dell, 68, American, La Mon Mine. Fell from bin under tippie, a distance of 10 feet, killing him instantly.

October 19, 1908.—Calvin E. Bridwell, 38, American, Oakley Mine. At time of accident he was under the tippie loading coal in R. R. cars, and in trying to get out of the way of trip of runaway cars on incline, was struck on head by flying coal, resulting in his death.

November 18, 1908.—John Henneman, 55, German, Scranton Mine. Was working on pillar work and was loading a car, when a piece of draw slate fell, crushing him, causing his death.

November 20, 1908.—Harry Akins, 20, American, Red Warrior Mine. Was loading cut a shot of coal which had about eight mine cars in it. He was loading the seventh car when a fall of draw slate came mashing him through body, causing instant death.

December 17, 1908.—James Young, 24, Negro, Ruby Mine. He was helping to pull down a piece of draw slate, which fell and caught him, death being instantaneous.

December 23, 1908.—John L. Perfater, 42, American, Oakley Mine. He was struck by paddle of fan while trying to oil fan and was killed.

January 4, 1909.—George Cadwallander, 19, American, Paint Creek Mine. He was working with seven other men cleaning up slate at a break-through between two rooms, preparing to put a road from one room to another, when slate fell, killing him.

January 9, 1909.—Joe Jurasits, 35, Hungarian, Kelley's Creek No. 3. This man went in another man's place after a charge had been set off, and was killed instantly by a blown through shot.

April 2, 1909.—L. M. Bailey, 28, American, Chesapeake No. 3 Mine. Was killed by fall of slate while loading a car of coal.

April 13, 1909.—Ira Ballard, 15, American, Belleclare Mine. He fell from a mule and was dragged to death.

June 11, 1909. William Balser, 56, American, Blakeley Mine. He was warned not to start out ahead of the car, but failed to obey warning. He reached the outside but did not get off of track. The car ran over him, dragging him about 20 feet, causing death.

June 29, 1909.—Ira Blake, 20, American, Republic No. 3 Mine. Was riding on the front end of gathering motor, fell off and was crushed to death by motor running over him.

June 30, 1909.—Frank Scott, 17, American, South Carbon Splint Mine. It is supposed that he attempted to step on the rear car of the motor trip as they were being backed in on one side track, caught under the wheels of the car, and was killed.

August 4, 1909.—Alex. Melick, 35, Slavish, Eccles No. 11 Mine. The deceased was shoveling coal from face of heading when piece of sand stone fell upon him, which resulted in his death.

August 28, 1908, Davy Furgerson, 29, Scotch, Raleigh No. 6 Mine. Had been instructed to take down loose slate, but failed to do so, and was caught by fall of same, resulting in his death September 6, 1908.

September 9, 1908, James G. Ford, 27, American, Piney No. 3 Mine. Death was caused by knocking prop from under loose slate, which struck him edge ways.

September 11, 1908.—Villan Centsesky, 40, Polish, Cranberry Mine. While mining slate fell, breaking his neck and back, killing him instantly.

September 21, 1908.—Harry M. Cole, 24, American, Lanark Mine. It is supposed that he was kicked by mule and knocked off of car, which ran over him. He died at hospital October 5, 1908.

October 7, 1908.—Joe Kohot, 28, Slavish, Raleigh No. 3 Mine. Came in contact with live wire, and died in twenty minutes.

October 8, 1908.—Ben Owens, 30, American, Cranberry Mine. Was taking down slate, when he deliberately knocked out a post, which fell on him. He was taken to hospital, where he died October 13, 1908.

October 31, 1908.—Conn Proto, 35, Italian, Eccles No. 11 Mine. He was caught between cars at bottom of shaft and crushed, causing instant death.

November 11, 1908.—William McCartney, 32, Scotch, Raleigh No. 3 Mine. Was making a cut in a stump, when slate gave way, catching him mashing him through chest, resulting in death three hours later.

December 10, 1908.—Jeff Pollard, 30, Negro, Stonewall No. 3 Mine. The deceased was digging coal in room No. 6 on 3rd entry when a piece of slate fell catching him under it, causing instant death.

December 30, 1908.—James Hunter, 25, American, Dorothy Mine. This man was standing at end of motor when another motor came with empty trip ahead of him. Injured party thought switch was changed for the other entry and he stood still, empty trip struck his motor catching him between cars and motor, inflicting injuries which resulted in his death January 6, 1909.

January 11, 1909. Steve Partuta, 33, Slavish, Oswald Mine. He came to his death by fall of slate, due to his own neglect.

April 10, 1909.—Curtis Gilliam, 25, Negro, Cranberry Mine. The deceased was shoveling slack from under the machine, when he was killed by a fall of kettle bottom. Will Ross was non-fatally injured at this time.

April 27, 1909.—Domingo Largon, 35, Spanish, Lanark Mine. Was badly mashed by fall of slate, which caused instant death.

May 13, 1909.—George W. Pearson, 31, English, Cranberry Mine. Was taking down some draw slate when a piece of kettle bottom fell breaking his neck, resulting in instant death.

May 17, 1909.—Riley W. Barger, 36, American, Sprague Mine. Was killed instantly while trying to take down some loose slate, which fell on him.

June 18, 1909.—Joe Stokel, 46, Polish, Graham Mine. Was caught by fall of slate and killed.

June 22, 1909.—John Ross, 31, American, Prosperity Mine. Was mining in a break-through about 8 feet wide when coal fell, breaking his neck, death ensuing immediately.

MERCER COUNTY.

July 7, 1908.—Harry Buckhannon, 14, American, West Mine. He was sitting near a trap door and a piece of slate fell from the roof, crushing his head and skull, killing him.

July 11, 1908.—Steven Allen, 50, Negro, Pinnacle Mine. He had loaded his car, signalled the hoistman to go ahead, then stepped in front of the car to go on the other side. Just as he was half way across, the car started, his right foot being caught by the cable, the car wheels passing over that leg. He was sent to Miners' Hospital, where he contracted pneumonia, dying from same July 19, 1908.

July 27, 1908.—Ed. Logan, 30, Negro, Buckeye South Mine. He was knocked off of car, by mule, which ran over him killing him.

August 20, 1908.—Joseph Warmuth, 28, Hungarian, Spring Mine. He was cautioned on the morning of the accident not to start to work until he had propped his wrking place. Disregarding all instructions, he went ahead and was killed by fall of slate.

September 16, 1908. Fred Davis, 18, American, Pinnacle South Mine. While puling down some coal with his pick, the slate gave way without warning, crushing him so that he died within half hour.

Novemembr 6, 1908.—Ed Day, 24, Negro, Pawama No. 1 Mine. He had been loading coal into a car and had cleaned up all of the loose coal there, and was waiting for some loose slate to fall so he would not have to move it, while waiting was mashed to the ground and killed by fall of slate.

November 24, 1908.—John G. Lester, 24, American, Weyanoke Mine. He had made a shot and was shoveling coal when the rock fell killing him.

December 12, 1908.—Jacob Hodges, 28, American, Crystal Mine. Deceased was at work tamping a hole preparatory to blasting, and while thus engaged, a kettle bottom fell on him crushing him to death.

January 30, 1909.—Raleigh P. Adams, 21, American, Spring Mine. This man was working in the entry known as second left heading, when a piece of drawn slate hanging on the rib at face of entry fell on him, killing him instantly.

April 5, 1909.—John Shomlar, 45, Slavish, Crane Creek No. 1 Mine. He was working at the face of twelfth cross entry, digging at the coal, while overhead was a piece of draw slate, and had been warned at the time that it was dangerous, but he thought the piece solid enough. While working it broke loose and killed him almost instantly.

May 27, 1909.—A. D. Reynolds, 38, Negro, Coaldale Mine. This man was killed by a sudden fall of coal and slate.

May 29, 1909.—Frank Marlowe, 41, American, Coaldale Mine. Was cleaning up a fall, working under loose slate, when a piece suddenly fell, striking him on the head, from which he died the next day.

May 31, 1909.—Charles L. Crawford, 28, American, Spring Mine. Was caught by fall of slate, from which cause he died June 1, 1909.

McDOWELL COUNTY.

July 7, 1908.—John Bell, 24, Negro, Peerless Mine. He was shooting down slate and loading it in cars, when slate, which had been considered safe, fell on him, mashing his head and body, causing his death.

July 13, 1908.—George Eagle, 15, German, Big Sandy Mine. Left his trap door contrary to mine foreman's order, and was helping brakeman, was standing along side of trip when car jumped track, crushing him to death.

July 17, 1908.—Arthur Brown, 15, American, Indian Ridge Mine. He was pushing empty car when loaded trip knocked him off the tippie; his head being crushed, killing him instantly.

July 18, 1908.—Roman Stick, Russian, Crozer No. 2 Mine. He left his room and went into his neighbor's room, who warned him of the loose slate there, which he disregarded, and in a few minutes about one ton of slate fell crushing him to death.

July 20, 1908.—Andy Govnick, 42, Hungarian, United States No. 1 Mine. Was under-cutting when coal fell, crushing him to death.

August 4, 1908.—Jas. Melton, 21, Negro, United States No. 2 Mine. While putting in a cut at top of coal, piece of slate fell breaking his back, causing his death.

August 6, 1908.—George Patterson, 24, Negro, J. B. B. No. 2 Mine. Was dumping cars and had taken checks from them to take to the weighman when he backed into a live wire, which struck him on the head resulting in instant death.

August 7, 1908.—George Hinkle, 35, American, No. 3 Mine. He and some workmen pulled down all the slate they thought was loose, set posts and began to load coal, when the slate gave way, crushing him to death.

August 7, 1908.—George Dobson, 51, Negro, Eureka Mine. Was killed instantly by fall of slate known as "kettle bottom."

August 7, 1908.—George T. Crigger, 18, American, Hall No. 1 Mine. Was struck on head by slate, brain fever set in from which he died September 5, 1908.

August 22, 1908.—Jack Catzen, 40, Greek, Lynchburg Mine. He was riding between loaded cars that were pulled by motor, fell under the cars, and died a few hours after the accident.

August 25, 1908.—Alex. Kish, 40, Hungarian, Jed Mine. He had been working alone, and was dead when found by a diver under a fall of draw slate.

August 29, 1908.—Tom Duncan, 17, American, McDowell No. 2 Drift Mine. He had almost finished the stump he was working on, was loading car, when, without warning, the roof fell crushing him to death.

August 31, 1908.—John Pannick, 35, Polish, Jed Mines. He was working alone when slate fell, killing him instantly.

September 1, 1908.—Toney Majchorntz, 27, Slavish, Pando Mine. This man was killed by a fall of slate, due to his own carelessness.

September 1, 1908.—G. A. Jackson, 30, American, Arlington Mine. He aimed to drop car in his room, but missed his place going into another place not driven so far striking face of coal unexpectedly, crushing his body, resulting in his death.

September 4, 1908.—Robert Gayle, 35, Negro, Piney Mine. Digging under a hanging shot in the coal, same fell on him crushing him to death.

September 24, 1908.—Taylor O'Neil, 38, American, Big Sandy Mine. Had mined out to a "horseback" and fired the slip, which let the slate fall, breaking his neck, resulting in instant death.

October 17, 1908.—Paul Ziaccuve, 34, Italian, Tidewater Mine. He was making an undercut when about a mine car load of coal fell and killed him.

October 23, 1908.—Charles Stelma, 26, Polish, United States No. 3 Mine. While mining was crushed to death by fall of coal.

October 28, 1908.—George Washington, 25, Negro, Tidewater Mine. While cleaning up some loose slate, he was caught by a fall of slate, was injured so badly that he only lived about an hour when brought to the outside of the mine.

November 11, 1908.—Charles Rose, 25, Italian, Eureka Mine. When he was loading coal that had been shot, a big lump that was caught against the rib rolled over on him and caused his death.

November 21, 1908.—William Furgus, 25, Negro, Pulaski Mine. This man was crushed to death by fall of slate.

December 3, 1908.—James Green, 40, Negro, King Mine. Was killed by an explosion of gas. Four men were non-fatally injured at this accident.

December 12, 1908.—Alford Bradley, Page Mine. Was killed, while mining, by fall of slate.

December 22, 1908.—William Burns, 33, Scotch, Bottom Creek Mine. In trying to take down some props, slate fell, pinning him down, from which injuries he died in a few minutes.

December 23, 1908.—Pascol Larezza, Italian, Eureka Mine. Mine foreman in charge had given positive instructions to the deceased to set timber before loading coal, which he failed to do, and was killed by fall of slate.

December 29, 1908.—The following persons were killed by a dust explosion in the Lick Branch Mine, a detailed account of this accident will be found in the appendix to this report.

Americans.

Alexander, Cleve.	Johnson, J. E.
Beatty, Samuel.	Little, Chas.
Belvins, Thomas.	Little, Wiley.
Belvins, Elzy.	Partin, John W.
Cannady, Pleas.	Vaughan, Edward.

Greek.

Brown, John.	George, Meaket.
Foles, Peter.	

Italians.

Rose, Dominic.	Palmara, Tony.
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Hungarians.

Nisuk, Joseph.	Tarrachuke, Karp.
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Russians.

Buschuke, Sinus.	Wanmuk, Luna.
Boresky, Gregory.	Parvalic, George.
Buschuke, Nicolý.	Parvalic, Asceny.
Harasmuk, Trofia.	

Negro.

Anderson, Reed.	Miller, John W.
Bolin, David.	Page, Scott.
Calloway, James.	Reynolds, Walter.
Davis, Green.	Rhone, James.
Edmunds, Joseph.	Sandeis, J. Kemp.
Estes, Zeph.	Smith, James.
Estes, Joseph.	Swan, Thomas.
Hicks, John.	Unknown Adult.
Holland, Albert.	Webber, Robert.
Holland, John A.	Webber, Matthew.
Lockett, Richard.	Williams, Robert.
Lockett, Joseph.	Williams, Buck.
Lockett, James.	

January 1, 1909.—Augustus Johnson, 17, Negro, Keystone Mine. Jumped off of car, which ran over him, crushing him to death.

January 5, 1909.—F. D. Calaway, 40, Negro, Upland Mine. Had just finished loading car, and stepped in front of same, to clean up some loose coal, when draw slate gave way, falling on him, causing his death.

January 11, 1909.—Steve Juda, 40, Hungarian, Roanoke Mine. Had

been warned by mine foreman to take down loose slate, but disregarded instructions; when starting to work slate fell on him, killing him.

January 12, 1909.—The following persons were killed by a dust explosion in the Lick Branch Mine, a detailed account of this accident will be found in the appendix to this report:

Americans.

Ayres, James.	Mahoney, John.
Arrington, Daniel.	Miller, Dowdy.
Abel, Albert.	Miller, A. R.
Bolin, J. Henry.	McDade, A. P.
Buffalo, Floyd.	Peters, George.
Buffalo, Robert H.	Phillips, Chas.
Bates, Henry.	Phillips, Everett.
Collins, Edward R.	Smith, John.
Clark, Steven C.	Surratt, William R.
Eversole, W. E.	Surratt, David A.
Hague, John.	Wyatt, Robert.
Holliday, Con J.	Weiford, C. B.
Jones, Joseph.	Unknown.
Johnson, Ben.	Unknown.
Leonard, H. A.	Unknown.
Meyers, Thomas.	

Negroes.

Baldwin, Luther.	Jones, A. R.
Clark, Elk.	Lee, Henry.
Cobbs, J. H.	Lee, Brown.
Crawford, Pink.	Manns, Bruce.
Darphy, William.	Martin, Walter.
Dean, Lemuel.	Martin, J. F.
Ensley, George.	Mitchell, John.
Giles, Walter.	Mitchum, Clarence.
Hairston, Frank.	Rose, Ed.
Hairston, C. J.	Staples, Taylor.
Heppenstall, Peter.	Terry, Ernest.
Hill, Robert.	Wood, Ed.
Howard, Charles.	Walter, Henry.
Hutchinson, Tabe.	Watson, Daniel.
Hunter, John.	Unknown.
Hunter, Melvin.	Unknown.
Johnson, Anthony.	Unknown.

Hungarians.

Robensky, George.	Robensky, Mike.
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January 18, 1909.—Mike Marci, 28, Italian, McDowell Mine. He was

undercutting face of his room when piece of draw slate fell, killing him.

January 18, 1909.—Dan Hariston, 42, Negro, United States No. 2 Mine. Jumped on motor at drift mouth, his coat caught on nail in second set of timbers, pulling him off of motor, squeezing him to death.

January 19, 1909.—Pascal Mashcar, 35, Italian, Eureka Mine. He was cleaning undercut, under coal, when coal fell on him knocking him against a prop, killing him instantly.

February 4, 1909.—James Robinson, 28, American, No. 2 Mine. Was tamping hole under piece of draw slate, when it fell, bruising him through hips, resulting in his death on May 24, 1909.

February 8, 1909. Antonio Popa, 35, Polish, United States No. 2 Mine. While cutting coal at the top, it fell between the two sets of timber and face of coal striking him, causing instant death.

February 9, 1909.—W. C. James, 40, Negro, Tidewater Mine. He was stooping over knocking his can against the floor to settle the powder, and must have dropped a match into it, making a spark, causing an explosion, which resulted in his death.

February 12, 1909.—Joseph Acrobat, 24, Italian, No. 3 Coke Yard. He was propelling machine from lower to upper end of coke yard, got off while it was in motion to throw a piece of iron on the machine and while doing so, put his foot on the rail which was run over and crushed by the truck wheel, resulting in his death.

February 17, 1909.—Shedreck Stevens, 20, Page Mine. A piece of slate fell, when taking first cut out of break-through, resulting in internal injuries, from which he died.

February 18, 1909.—Jarvis King, 40, Negro, Gilliam Mine. A fall of coal killed him instantly.

March 4, 1909.—Tom Smith, 38, Negro. Bottom Creek Mine. He was loading a car at the face of back entry off No. 10 when a kettle bottom fell, catching him, from which he died instantly.

March 8, 1909.—John Smith, 19, Negro. Roanoke Mine. Probably stepped on rail and slipped, wheels of larry ran over and crushed one leg and one foot. He died the next day.

March 17, 1909.—Robert Walker, 27, Negro, Delta Mines. He was working in No. 6 room on crop entry, digging a cut when a piece of slate fell, striking him on the chest and mashed his head against the coal. Was injured at 1 P. M. and died at 9:50 P. M.

March 18, 1909.—Jess Casey, (Akers), 17, American. No. 2 Mine. Was on rear car on trip and ran forward to about the fifth car from rear then jumped up and caught hold of one of the cross-arms or suspensions for trolley wire and after about two cars had passed under him dropped presumably expecting to light on third car from rear. He fell head first, cars running over him, resulting in instant death.

March 21, 1909.—Joe Reed, 52, Negro. Berwind No. 1 Mine. Was proceeding to his place of work, jumping in an empty mine wagon to ride into the mines. While trip was going up third right entry, which has a severe grade, it broke loose from motor running down the hill, he jumped out landing against rib, was badly injured, dying the next day.

March 22, 1909.—Joe Ross, 23, Italian, Empire Mine. Was making an undercut when coal fell on him, causing his death.

March 25, 1909.—Vasile Telea, 28, Roumanian. Shawnee Mine. While clearing away to set props, a large piece of slate fell mashing him to the ground, killing him.

March 25, 1909.—Frank Costelitz, 47, Roumanian. Shawnee Mine. This man was killed by fall of slate, while setting props.

March 27, 1909.—Thos. Thruce, 37, American, Jed Mine. Was snubbing coal when it rolled over and knocked a prop on him breaking his back. Died within two hours.

March 5, 1909.—Robert L. Kennedy, 17, English. Central Pocahontas Mine. In an attempt to get out of the way of a car that left the track it turned over down the hill, was struck by same and killed almost instantly.

April 20, 1909.—Julian Hyda, 42, Hungarian, United States No. 1 Mine. While pulling down one piece of slate another fell on him, resulting in instant death.

April 21, 1909.—Edward Gilbert, 18, American. McDowell Mine. Was driving mule, stumbled and fell in front of car, which ran over him, causing his death.

May 3, 1909.—A. J. Lile, 64, American. Middle States No. 11 Mine. Was coming up on cage when he fell off breaking his neck and legs, killing him instantly.

May 13, 1909.—Jos. Garrity, 26, Negro. Jed Mine. Was greasing trip of cars and was rolled by trip against rib, injuring him internally. He died the next day.

May 13, 1909.—James Rouse, 25, Negro. King Mine. The car was almost loaded when the injured looked over in the car, a piece of slate fell without warning and caught his head over edge of car, killing him instantly.

May 15, 1909.—J. Arthur Nelson, 22, American, Angle Mine. He had started home changed his mind went back to face where he had made his shot, when a kettle bottom fell on him, crushing his skull, and causing instant death.

May 21, 1909.—Jas. Hazas, 26, Hungarian, Piney Mine. He was mining under some coal that had been shot when it fell, crushing his head, killing him.

May 27, 1909.—Mike Rinkish, 42, Peerless Mine. This man was working under a foreman who had shot down and dressed the top. All slate had been taken to the main top, which he examined and considered safe. While they were cleaning up slate, a kettle bottom fell, killing the former instantly.

June 7, 1909.—John T. Thompson, 49, American, Slick Rock Mine. While sounding the top in the breakthrough, a large piece of slate fell on him, resulting in his death on June 13, 1909.

June 8, 1909.—Henry A. Addison, 35, American. J. B. B. No. 2 Mine. This man was alone when found. Had been crushed by fall of slate.

June 9, 1909.—Jas. Tackett, 40, American. Maher Mine. He was loading coal and had intended loading what they had down before taking down the slate which they noticed was loose. While doing so it fell,

striking him on head and shoulder, from which injuries he died on June 11, 1909.

June 10, 1909.—Mike Cutson, 52, Hungarian. Page Mine. Was mining coal when slate fell killing him.

June 11, 1909.—Robert Lambert, 22, Negro. Peerless Mine. This man was pulling a car out of 24 room on 18 entry and in some way got caught between car and rib, breaking his neck, resulting in death.

June 11, 1909.—James Woody, 22, Negro. Shamokin Mine. He was braking behind motor, fell from car on empty trip, run over by three empty cars and injured internally, dying from shock a few hours later.

June 21, 1909.—Nathan Smith, 50, Negro. Piney Mine. Was digging some coal off the face of room No. 20 first cross, when a kettle bottom fell, crushing him through breast and stomach, resulting in death.

LOGAN COUNTY.

July 10, 1908.—Frank Hensley, 14, American. Monitor Mine. This boy ran up entry to ride down on loaded car, and in the attempt to get on front end of car, his foot slipped, falling across track. The front wheel of the car passed over his chest, resulting in instant death.

July 28, 1908.—Arthur Scott, 20, American. No. 6 Mine. He was riding car, and his neck came in contact with trolley wire, death following almost instantly.

October 23, 1908.—Mike Stico, 23, Hungarian. No. 5 Mine. Driver was hauling two cars down grade, he attempted to drive his mule in opposite direction to which the switch was thrown, which resulted in pulling cars off the track and catching him between cars and rib, crushing him to death.

December 4, 1908.—Joe Bossia, 30, Hungarian. Monitor Mine. He stepped aside to allow tri car to pass. A car of trip wrecked on frog derailing four cars, the first caught him between rib and car, killing him instantly.

December 7, 1908.—R. P. Anderson, 29, American. Monitor Mine. Fell off of car, front wheels passing over his left leg near thigh. He was taken to the hospital where he died three hours after accident.

December 30, 1908.—Harry Honaker, 17, American. No. 3 Mine. Jumped off of motor to throw a switch, slipped and fell in front of moving motor, which broke his back and crushed his head.

January 6, 1909.—Louis Thacketa, 30, Roumanian. No. 2 Mine. Was walking down main heading in No. 2 mine carrying a coal auger on shoulder, and in turning caught it in trolley wire, the current passing through his body, killing him almost instantly.

April 19, 1909.—Robert Johnson, 18, Negro. Ethel Mine. Was helping an experienced miner under slate thought to be safe, when it fell injuring his back and head, from which he died at Logan Hospital, May 5, 1909.

June 10, 1909.—Joe Hensley, 18, American, Monitor Mine. This man fell from mine car and was killed.

MINGO COUNTY.

July 14, 1908.—Marcus L. Milem, 21. Grapevine Mine. In an attempt to detach a mule from a moving car was thrown against the rib, receiving injuries which resulted in his death at Miners' Hospital No. 1, Welch, W. Va., on August 8, 1908.

August 8, 1908.—Gailard Carraway, 18, American. Rutherford Mine. Was in runaway on incline, the fall resulting in instant death.

August 8, 1908.—Sam Carraway, 20, American. Rutherford Mine. Was killed by runaway on incline.

August 8, 1908.—Scono Ronat, 32, Italian. Rutherford Mine. Was killed by runaway on incline.

September 15, 1908.—Harve Blankenship, 33, American. Margaret No. 1 Mine. Deceased was loading coal when small piece of slate fell from over head, killing him instantly.

September 22, 1908.—Wasil Popif, 34, Bohemian. Red Jacket Mine. Had loaded his car, and sat down to rest with his back against a post, slate broke off on the rib side causing it to slide the post set under it, falling on him, killing him instantly.

December 8, 1908.—Jas. Williams, 21, American. Rutherford Mine. He was working in main air course alone and when motorman went to pull his car he found him under a piece of slate, crushed to death.

December 22, 1908.—Toney Praco, 35, Italian. Glen Alum Mine. He unoccupied loaded car from trip at shop, with the intention of riding to head house, car running away injuring him, from which he died at Welch Hospital, December 26, 1908.

February 3, 1909.—W. S. McClure, 40, American. Thacker No. 3 Mine. Was run over by trip of cars, and killed instantly.

May 13, 1909.—Robert Anderson, 15, American. Chattaroy Mine. He left his door and caught an empty car that was passing, and when about 200 ft. farther in, a fall occurred, which resulted in the boy's death seven hours later.

May 19, 1909.—Benney Sernal, 23. Glen Alum No. 1 Mine. He was working on a pillar and was loading car, when a piece of slate fell from over the roadway and between the props, striking him, breaking his neck, resulting in instant death.

June 28, 1909.—Edward Fanning, 19, American. Logan Mine. Was cleaning up slate when another fall of slate knocked out a prop which struck him, mashing him through hips, from which he died the next day.

CONDITION OF THE MINES.

MINE INSPECTORS.

John Laing, Chief of the Department of Mines, Charleston.

FIRST DISTRICT.

R. S. LaRue, Inspector, Fairmont.

SECOND DISTRICT.

F. E. Parsons, Inspector, Clarksburg.

THIRD DISTRICT.

John F. Bratt, Inspector, Independence.

FOURTH DISTRICT.

J. A. Springer, Inspector, Flemington.

FIFTH DISTRICT.

Earl A. Henry, Inspector, Clifton.

SIXTH DISTRICT.

Bonner H. Hill, Inspector, Chelyan,

SEVENTH DISTRICT.

William Warner, Inspector, Charleston.

EIGHTH DISTRICT.

*J. A. Straughan, Inspector, Thurmond.

NINTH DISTRICT.

*John Phillips, Inspector, Beckley.

Lance B. Holiday.

TENTH DISTRICT.

*D. R. Phillips, Inspector, Bramwell.

ELEVENTH DISTRICT.

*James G. Boyd, Inspector, Bluefield.

William Nicholson, Inspector, Bluefield.

TWELFTH DISTRICT.

Patrick A. Grady, Inspector, Huntington.

*J. A. Straughan, Inspector until April 1st, 1909.

*John Phillips, Inspector until April 30th, 1909.

*D. R. Phillips, Inspector until March 31st, 1909.

*James G. Boyd, Inspector until November 15th, 1908.

The work in these Districts was looked after by Special and other District Inspectors until regular District Mine Inspectors were appointed.

MINE INSPECTION DISTRICTS.

FIRST DISTRICT.

Counties of *Brooke, Hancock, Marion, Marshall, Ohio, Wetzel, Tyler* and *Pleasants*.

SECOND DISTRICT.

Counties of *Harrison, Lewis, Upshur, Webster, Doddridge, and Ritchie*.

THIRD DISTRICT.

Counties of *Barbour, Monongalia, Preston* and *Taylor*.

FOURTH DISTRICT.

Counties of *Grant, Mineral, Randolph, Tucker, Hampshire, Hardy, Pendleton, Pocahontas, Morgan, Berkeley* and *Jefferson*.

FIFTH DISTRICT.

Counties of *Brarton, Clay* (part), *Gilmer, Fayette* (part), *Kanawha* (part), *Mason, Putnam, Calhoun, Wirt, Jackson* and *Roane*.

SIXTH DISTRICT.

Counties of *Kanawha* (part), *Raleigh* (part), and *Boone*.

SEVENTH DISTRICT.

Counties of *Clay* (part), *Fayette* (part), *Kanawha* (part), and *Nicholas*.

EIGHTH DISTRICT.

Counties of *Fayette* (part), and *Greenbrier*.

NINTH DISTRICT.

Counties of *Raleigh* (part), *Fayette* (part).

TENTH DISTRICT.

Counties of *Mercer, McDowell* (part), *Summers* and *Monroe*.

ELEVENTH DISTRICT.

Counties of *McDowell* (part), and *Wyoming*.

TWELFTH DISTRICT.

Counties of *Lincoln, Logan* (part), *Mingo, Wayne, and Cabell*.
(Italicized Counties are those in which coal mines are operated.)

FIRST DISTRICT.

GENERAL SUMMARY OF THE FIRST MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYEES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Brooke -----	6	3	123	475	73	94	765	80	-----	80	845	449,647	-----
Hancock -----	12	---	16	50	8	23	97	10	-----	10	107	46,756	-----
Marion -----	30	20	1066	1001	246	947	3260	590	72	662	3922	3,733,765	65,213
Marshall -----	7	1	24	223	32	60	339	54	-----	54	393	233,848	-----
Ohio -----	7	---	58	151	14	41	264	29	-----	29	293	158,327	-----
Totals..	52	23	1287	1900	373	1165	4725	763	72	835	5500	4,622,343	65,213

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

Fairmont, W. Va., July 1, 1909.

HON. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

DEAR SIR:—I herewith submit to you my annual report as Inspector of Mines in the First District of West Virginia, for the year ending June 30th, 1909.

There are fifty five mines in this District, several of which are very old mines and will soon be worked out. The condition in some of these mines is only fairly good. There are also two new shafts being sunk at Farmington by the Georges Creek Coal & Iron Company, Nos. 3 and 4. These shafts will be about 300 feet deep when completed and will operate the Pittsburg seam of coal on the double entry system.

I am glad to say there has been a great improvement in most of the mines in my District during the past year, in the way of better drainage, better ventilation, concrete brattices, overcast, etc. There seems to be a general disposition among all operators in this District to improve the conditions of their mines in every way possible, in order to secure safety to the men employed in them. I am glad to say I have had no difficulty in having the mining laws complied with this year. I am also glad to be able to report to you that I have had no explosions in any form in my district. No mine fires, no men burned with powder or gas. I have had a few fatal accidents and a few non-fatal accidents during the past year, incident to coal mines, reports of which I have sent you.

I have had all the dry and dangerous mines in my District put under

atmospheric moisture. I think this is one of the most essential things for the safety of mines that can possibly be done, and especially so in highly ventilated mines.

Many years of experience in dry and gasuous mines has fully convinced me, aside from a large volume of air, the temperature and humidity of the air is the most essential thing for the safety of the mine. In my early writings, I advocated the use of safety explosives in dry and gasuous mines. I still advocate their use, but my experience with them has thoroughly convinced me there is no such thing as safety powder. My predictions are, that the greatest mine explosions in the future will be where these so called safety explosives are being used, since too much confidence is being placed in them and not enough attention paid to the actual condition of the mines. It is my opinion that no explosives should be used in any mine where the temperature of the atmosphere entering the working places in the mine, is below the fixed or natural temperature of the mine. The air entering the mine should be heated to exceed the fixed or natural temperature of the mine, and no shots should be fired under these conditions unless the humidity of the atmosphere exceeds 85%. Under these conditions in highly ventilated mines, it is immaterial as to what kind of explosives are used, or when shots are fired, provided they are used by intelligent and practical men. All shot-firing in mines should be done by intelligent, practical men.

Owing to the great number of oil and gas wells and wells drilled for prospecting purposes through the mines and in the undeveloped coal fields of this State, and the great danger threatening the mines of this State from the same, I am in favor of the exclusive use of Lock Safety Lamps in all the mines of this State. I would also recommend the use of these from the fact that it also eliminates all smoke arising from the use of oil in the mines.

I am opposed to the use of electricity in gasuous mines, but since it is being used in the mines of this State, and no law to prevent its use, I would recommend that an automatic governor switch be attached to the fan shaft in such a manner that when the speed of the fan is reduced to one-half of its normal revolution, the electric current entering the mine shall be automatically cut out at the switchboard.

The ignorance of a greater part of the men employed in the mines of this State at the present time, is, no doubt, the cause of many of the accidents that occur.

Another great evil is drunkenness among miners. I believe that seven-tenths of the accidents this year in my District, are attributable to strong drink, either directly or indirectly. This evil seems to be spreading at an alarming rate, and it does seem to me that an effort should be made to forever stamp it out.

While I have firmly insisted on the mining laws of this State being strictly complied with, I have been treated kindly by both operators and miners of my District during the past year.

In conclusion, I want to thank you for your able counsel and kind courtesy to me during the time I have been with you. I also wish to

thank the employers and the employes in my District for their kindness to me during the past year. I am,

Very truly yours,

R. S. LARUE.

CONDITIONS OF THE MINES IN THE FIRST DISTRICT.

The last two series numbers indicate the Inspector's number of the mine while the number or numbers preceding them indicate the number of the district in which the mine is located, Viz: 115 indicates the first district and number 15 mine.

HANCOCK COUNTY.

MARQUETTE COAL COMPANY.

Series No. 101. *No. 4 Mine.*—This mine is located on Harden Run, 3 miles east of New Cumberland. They are operating the Upper Freeport Coal on the double entry system. The coal is delivered to the P. C. C. & St. L. R. R. over a branch road 3 miles long, by an engine owned by the Marquette Coal Co. Ventilation is produced by a furnace and is good. A good quality of oil is used for illuminating purposes. All powder is carried in the mines in 5 lb. cans. A map of this mine has been furnished this office as required by law. Rules are posted. Blankets and stretchers are kept at the mines. The main heading in this mine was driven 1100 ft. through solid rock before striking coal. This is a beautiful mine and is well taken care of, and the coal is of a splendid quality. C. F. WAGONER, Supt. WM. GILMORE, Mine Foreman.

Series No. 102. *No. 5 Mine.*—This mine is situated on Harden Run, 2 miles east of New Cumberland. They are operating the Upper Freeport coal on the double entry system. The coal is delivered over a branch road, a distance of 2 miles to the P. C. C. & St. L. R. R. by an engine owned by the Marquette Coal Co. Ventilation is produced by a furnace and is good. All coal is mined with picks and hauled to the tippie by mules. A good quality of oil is used for illuminating purposes. Rules are posted. Blankets and stretchers are kept at the mines. This is an old mine and will soon be worked out. C. F. WAGONER, Supt. WM. LIDYARD, Mine Foreman.

BROOKE COUNTY.

LEWIS-FINDLEY COAL COMPANY.

Series No. 104. *Locust Grove Mine.*—Located on P. C. C. & St. L. R. R. 2 miles south of Collier's Station. It is a drift mine, operating the Pitts. seam of coal on the double entry system. The ventilation is produced by a fan and is good. The roof in this mine in some sections is not good, but it is well timbered. Powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is of a good quality. The second opening meets the requirements of the mining law. The coal is under-cut with Jeffrey Electric Chain Machines and hauled from mines by electric motors. Maps have been furnished this office. Blankets and stretchers are kept at the mines. This coal is used chiefly for coaling engines, this

being a railroad coaling station. The coal is 5 ft. thick and of a splendid quality.

PETER NEIL, Supt.

JAS. PLATT, Mine Foreman.

LA BELLE IRON WORKS.

Series No. 105. *La Belle Shaft Mine*.—This shaft mine is in operation at Steubenville, Ohio. The shaft is in Jefferson County, Ohio. The mine extends under the Ohio River into Brooke County, W. Va. Depth of shaft to surface landing 193 feet. They are operating the Upper Freeport seam of coal on the double entry system. All life was destroyed in this mine at one time by a gas explosion. The mine is producing explosive gas at the present time, and is threatened with destruction from the fact that oil and gas wells are being driven through it. Ventilation is produced by a fan and is fairly good. The coal is under cut with Jeffrey Electric Chain Machines and hauled to the shaft bottom by Jeffrey motors. I have recommended that a shaft be sunk to this mine on the W. Va. side of the Ohio river. Maps have been furnished this office. Blankets and stretchers are kept at the mines. Rules are posted. All inspections have been made this year in company with Mr. Ebenezer Jones, the Ohio Mine Inspector. Open lights are used. A good quality of oil is used in the mine.

R. W. McCASLAND, Supt.

WILLIAM LAFFERTY, Mine Foreman.

JOSEPH CHADWICK, Fire Boss.

REX CARBON COAL COMPANY.

Series No. 106. *No. 1 Mine*.—This mine is located on Cross Creek, on the Wabash Pittsburg Terminal R. R., six miles northeast of Wellsburg. It is a drift opening, operating the Pittsburg seam of coal on the double entry system. The roof is good, consisting of a hard, black slate. The coal is under-cut with Jeffrey Electric Chain Machines, and hauled from the mine by Jeffrey motors, and delivered to the tippie over an incline 250 feet, by rope.

Ventilation is produced by a fan and is good. This mine is inclined to be dry, and the dust is of a highly explosive nature. Great care has to be taken in this respect. Oil used for illuminating purposes is of a good quality. Blankets and stretchers are kept at the mines. Maps have been furnished this office. The second opening meets the requirements of the mining laws. Rules are posted.

ARCHIE DONALDSON, Supt.

WM. GULLEY Mine Foreman.

A. GILCHRIST & SONS.

Series No. 107. *Gilchrist Mine*.—This mine is located on the P. C. C. & St. L. R. R., one mile north of Lazerville. It is a drift opening, operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a furnace and is fairly good. All coal is mined with picks, and hauled out by mules, and delivered to the railroad over an incline 1050 feet long. Rules are posted. Blankets and stretchers are kept at the mines. Oil in use is of a good quality. Maps have been furnished this office. This mine is well taken care of.

A. GILCHRIST, Supt.

W. T. GILCHRIST, Mine Foreman.

LA BELLE COAL COMPANY.

Series No. 108. *Lewis No. 1 Mine.*—This mine is located on the P. C. C. & St. L. R. R., at the southern extremity of Wellsburg. This is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a furnace and is only fairly good. Drainage is only fairly good. The second opening is fairly good. The coal is under-cut with Electrical Chain Machines. Rules are posted. Blankets and stretchers are kept at the mine. Oil is of a good quality. Maps have been furnished this office. Coal is hauled from this mine by use of electric motors, and delivered to the R. R. by an incline 1,025 feet long. 500 volts of electricity are used in this mine. Two men have been electrocuted during the year, one man inside the mine and the other outside the mine near the entrance.

O. L. MARQUETTE, Supt.

WILSON HOLMES, Mine Foreman.

BEECH BOTTOM COAL COMPANY.

Series No. 109. *Beech Bottom No. 1 Mine.*—This mine is located on the P. C. C. & St. L. R. R., six miles south of Wellsburg. It is a drift mine, operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a Robinson fan, and is good. Drainage is good. All powder is carried into the mines in 5 lb. cans. Oil in use is good. Rules are posted. Blankets and stretchers are kept at the mine. The coal is under-cut by use of chain machines and hauled out by motors, and delivered to the railroad over an incline 1800 feet long. 500 volts of electricity are used in this mine. One man has been electrocuted in the mine during the year. This is a nice mine and is well taken care of, and is capable of producing a large out-put of coal, when in full operation. The quality of the coal is very good. The second opening is law-ful.

ELMER HOUGH, Supt.

W. E. WALLACE, Mine Foreman.

OHIO COUNTY.

RICHLAND COAL COMPANY.

Series No. 110. *Richland Mine.*—This mine is located two miles north of Wheeling, on the P. C. C. & St. L. R. R. It is a drift mine operated on the double entry system in the Pittsburg seam of coal. Ventilation is produced by fan and is only fairly good. Recommendations have been made in regard to second openings. All powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is good. Blankets and stretchers are kept at the mine. The coal is under-cut with electric chain machines, and hauled out by Jeffrey electric motors, and delivered to railroad over an incline 250 feet long. Rules are posted. Maps of this mine have been furnished this office.

PAUL LEONARD, Supt.

WM. NIXON, Mine Foreman.

ELM GROVE COAL COMPANY.

Series No. 111. *Elm Grove Shaft Mine*.—This mine is located at Elm Grove, on the B. & O. R. R., 5 miles east of Wheeling. It is operated in the Pittsburg seam of coal on the double entry system. It is ventilated by a fan and the ventilation is good. Drainage is good. All powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is good. Maps of this mine have been furnished this office. The second opening meets with the lawful requirements. Blankets and stretchers are kept at the mines. The coal is mined with Jeffrey electric chain machines, and hauled to shaft bottom by Jeffrey electric motors. Depth of shaft 65 feet.

J. B. CHAMBERS, Supt.

ALBERT EIKEY, Mine Foreman.

REYMANN BREWING COMPANY.

Series No. 114. *Manchester Mine*.—This mine is located in East Wheeling, on the Wheeling & Lake Erie R. R. It is a drift mine, operated in the Pittsburg seam of coal on the double entry system. Ventilation is good, is produced by a fan. The main entry is driven through the hill. Drainage is good. Powder is carried into the mine in 5 lb. cans. A good quality of oil is used for illuminating purposes. Maps have been furnished this office. Rules are posted. All coal is mined with picks. No blankets or stretchers are kept at this mine. All mines in city limits use the ambulance in case of accidents to any person employed.

C. C. SCHMIDT, Supt.

JOHN DONAHUE, Mine Foreman

WHITTAKER-GLESSNER COMPANY.

Series No. 115. *Carter Mine*.—This mine is located in East Wheeling, on the Wheeling and Lake Erie R. R. It is a drift mine operated on the double entry system in the Pittsburg seam of coal. Ventilation is produced by a fan and is good. Powder is carried in the mines in 5 lb. cans. A good quality of oil is used for illuminating purposes. A second opening is in a fairly good condition. Maps have been furnished this office. Mine rules are posted. The city ambulance is used in case of accidents to persons employed.

W. H. KAISLEY, Supt.

WM. MAGRUDER, Mine Foreman.

LA BELLE IRON WORKS.

Series No. 116. *La Belle Mine*.—This mine is located on the south side of Caldwell's Run, in South Wheeling. It is operated in the Pittsburg seam of coal on the double entry system. Ventilation is only fairly good, is produced by a furnace. Drainage is fairly good. This is an old mine and has not been well taken care of. This mine has just come under my jurisdiction. I have only inspected it once, and recommended that conditions be changed to meet the requirements of the mining laws.

R. W. McCASLAND, Supt.

W. H. BLOCHIN, Mine Foreman.

J. S. CREIGHTON.

Series No. 117. *Creighton Mine*.—This mine is located near Elm Grove, and is operated in the Pittsburg seam of coal. The coal is used for local purposes, and hauled away from the mine in wagons. This mine did not come under my jurisdiction this year.

J. S. CREIGHTON, Supt.

DANIEL SHAW, Mine Foreman.

PETER STORCH & SONS.

Series No. 118. *Storch Mine*.—This mine did not come under my jurisdiction this year.

PETER STORCH, Supt. and Mine Foreman.

MARSHALL COUNTY.

BOGGS RUN MINING & MANUFACTURING COMPANY.

Series No. 119. *Boggs Run Mine*.—This mine is located on the B. & O. R. R. at Benwood. Is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is only fairly good. The second opening is in a bad condition. This is an old mine and they are retreating, bringing what coal they can get from the interior as they came out. Considerable coal is being lost owing to bad conditions. All coal is mined with picks, and hauled out by rope. A map of this mine has been furnished this office. No blankets or stretchers are kept at the mines. The city ambulance is used in case of accident to any one employed at the mine. Mine rules are posted.

PHILIP KUNTZ, Supt.

EUGENE MILLER, Mine Foreman.

WHEELING STEEL & IRON COMPANY

Series No. 120. *Benwood Mine*.—This mine is located on the Baltimore & Ohio R. R. at Benwood. It is a drift mine operated on the double entry system in the Pittsburg seam of coal. Ventilation is produced by a fan and is fairly good. The second opening to this mine is in fairly good condition. Quite an amount of work has been done in this mine in the way of repairs to the second opening, and air-course parallel to main entry. Powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is good. All coal is cut by electric chain machines and hauled out by electric motors. Mine rules are posted. Maps of mine have been furnished this office. The city ambulance is used in case of accident to any one working in the mine.

CHARLES DAWSON, Supt.

WM. TURNBULL, Mine Foreman.

HITCHMAN COAL & COKE COMPANY.

Series No. 121. *Hitchman Mine*.—This mine is located on the B. & O. R. R. at the southern extremity of Benwood. This mine is operating the Pittsburg seam of coal on the double entry system. The coal is reached

by a slope 800 feet long. Ventilation is produced by a fan and is good. Some explosive gas is given off in this mine. The mine has a good electrical equipment. The coal is hauled up the slope to the tippie by endless rope. Outside is a steep trestle 1000 feet long. At the end is a coaling station used for coaling B. & O. engines. The bin at this station holds 1000 tons. All powder is carried into the mines in 5 lb. cans. A good quality of oil is used in the mines. Maps of this mine have been furnished this office. The second opening meets with the requirements of the mining law. Blankets and stretchers are kept at the mines. Mine rules are posted. This mine is well taken care of.

E. C. PICKETT, Supt.

JOHN HULL, Mine Foreman.

CHARLES ERIG, Fire Boss.

GLENDALÉ COAL COMPANY.

Series No. 122. *Glendale Shaft Mine*.—This mine is located at Glendale, on the B. & O. R. R. It is a shaft mine, 90 feet deep operating the double entry system in the Pittsburg seam of coal. Ventilation is produced by a fan and is only fairly good. Owing to bad condition in the main air course in this mine, quite an amount of cleaning up and repairs are needed to be done. The oil used for illuminating purposes is good. Powder is carried into the mine in 5 lb. cans. Maps have been furnished this office. Blankets and stretchers are kept at the mines. Mine rules are posted.

E. C. PICKETT, Supt. MIKE FREEMAN, Mine Foreman and Fire Boss.

MOUND COAL COMPANY.

Series No. 123. *Moundville Shaft Mine*.—This shaft mine is 165 feet deep and is located on the B. & O. R. R., at the northern extremity of Moundville. It is operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is only fairly good. I have recommended that a second parallel air-way be driven in this mine. Drainage is fairly good. Oil used for illuminating purposes is fairly good. Mine rules are posted. Blankets and stretchers are kept at the mine. The second opening meets the requirements of the Mining Laws.

ADAM LEONARD, Supt. and Mine Foreman.

BITUMINOUS COAL COMPANY OF AMERICA.

Series No. 124. *Bituminous Shaft Mine*.—This mine is located one mile east of Moundville on Parr's Run. This is operating the Pittsburg seam of coal on the double entry system. Shaft is 410 ft. deep. Some explosive gas is liberated. The mine is ventilated by a Jeffrey fan and the ventilation is good. There is but one opening to this mine. The number of men employed is kept below 20 persons. A second opening to this mine has been recommended, and the second shaft to this mine is now being sunk. All powder is carried into the mines in 5 lb. cans. This mine is equipped with electric machinery. All coal is hauled in the

mine with electric motors. Mine rules are posted. Blankets and stretchers are kept at the mines.

O. K. WARD, Supt.

JNO. WALLACE, Mine Foreman and
Fire Boss.

BITUMINOUS COAL COMPANY OF AMERICA.

Series No. 125. *Panama Shaft*.—This shaft is 186 feet deep. Is located one mile south of Moundsville on Graves Creek, operating the Pittsburg seam of coal on the double entry system. This mine was operated last year by the Panama Coal Co. The mine is ventilated by a Robinson fan, and is good. Drainage is good. A fair quality of oil for illuminating purposes is used. The second opening meets the requirements of the mining laws. All powder is carried into the mine in 5 lb. cans. Some explosive gas is given off in the mine but is well taken care of. Maps of this mine have been furnished this office. Mine rules are posted. Blankets and stretchers are kept at the mine. The out-put of coal from this mine in the last year has been small owing to construction work being done outside of the mine in the way of new tippie, new side-tracks, etc.

O. K. WARD, Supt.

JAS. EXTON, Mine Foreman and
Fire Boss.

MARION COUNTY.

GEORGE'S CREEK COAL AND IRON COMPANY.

Series No. 126. *Chatham Shaft, No. 1*.—Mine located on the B. & O. R. R. at Farmington. Shaft 255 ft. deep. Ventilation is produced by one 25 ft. fan and one 20 ft. fan, and is good. The mine is equipped with a large compressed air plant, and all machines and pumps in the mine are run by compressed air. At night in the summer season these air lines are attached to water lines outside of the mine and the mine is thoroughly watered at the face of all working places at night, whenever needed. A system that I would recommend in all mines piped for air. In the winter season steam is used to warm and moisten the intake air in this mine. The coal is hauled to the bottom of the shaft by means of endless rope. The second opening meets the requirements of the mining law. Safety powder is used exclusively and should be in all gaseous mines. Safety lamps are used exclusively. Competent shot firers are employed. Fire-bosses are on duty day and night in the mine. Considerable gas is given off in this mine. It is a beautiful mine and well taken care of. Maps are furnished promptly. Blankets and stretchers are kept at the mines.

N. J. STOCKTON, Supt.

MAX QUENON, Mine Foreman.
MARSH LEEPER,
MIKE CAPUT,
H. T. HALL,
Fire Bosses.

GEORGE'S CREEK COAL AND IRON COMPANY.

Series No. 127. *Chatham No. 2 Mine*.—Located at Farmington on the B. & O. R. R. on the Wheeling division. It is sunk to the lower or Pittsburg coal and is used as an air intake for Chatham No. 1. It is also used for hoisting the men up and letting them down into No. 1 shaft workings. The Sewickley coal is operated in this shaft, at a depth of 130 ft. but is not being operated at the present time.

N. J. STOCKTON, Supt.

MAX QUENNON, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 128. *Shaft Mine*.—This shaft mine is located one mile north of Fairmont on the B. & O. R. R., Grafton & Wheeling division. Depth of shaft 126 ft. They are operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. Explosive gas is liberated in this mine. Flameless powder is used. All shots are fired by competent shot firers. Open lights are used. The oil used for illuminating purposes is good. Coal is mined by use of electric chain machines, and hauled to shaft bottom by electric motors. Maps of this mine have been furnished this office. The mine is kept under atmospheric deposit of moisture by use of steam. Blankets and stretchers are kept at the mine. The second opening meets the requirements of the mining laws. This mine is being well taken care of at the present time. Mine rules are posted.

C. E. GASKILL, Supt.

HAYES GASKILL, Mine Foreman.

CHAS. SIDWELL,

C. D. HESNER,

Fire Bosses.

DAKOTA COAL & COKE COMPANY.

Series No. 129. *Dakota Shaft Mine*.—This mine is located 2 miles north of Fairmont, on the Paw Paw Branch of B. & O. R. R. It is a shaft 90 ft. deep, newly sunk to the Sewickley coal, and is not yet in operation. In the future the Pittsburg seam of coal will be operated from the same shaft opening. The Pittsburg seam of coal is 100 feet below the Sewickley coal in this section.

RAYMER FETTY, Supt. & Mine Foreman.

NEW CENTRAL COAL COMPANY.

Series No. 130. *Stafford Shaft Mine*. This mine is located 9 miles north of Fairmont, on the Paw Paw Branch of the B. & O. R. R. It is operating the Pittsburg seam of coal on the double entry system. It is a shaft mine 256 ft. deep. Ventilation is good and is produced by a fan. A large compressed air plant has been installed. All coal is mined by compressed air machines, and hauled to shaft bottom by compressed air locomotives. This system is highly satisfactory and should be adopted

in all gaseous mines. This mine is under atmospheric deposit of moisture. The moisture being produced by steam. Flameless powder is used exclusively. Safety lamps are used exclusively. Competent shot-firers employed. Fire-bosses are on duty day and night. Considerable gas is given off in this mine. The mine is well taken care of. Blankets and stretchers are kept at the mine. Mine rules are posted.

GEORGE S. PHILIPS, Supt.

THOS. GLEASON, Mine Foreman.

JOS. GREENE,

JNO. JENNINGS,

HARRY LOCKE,

Fire Bosses.

FEDERAL COAL & COKE COMPANY.

Series No. 131. *Federal Shaft No. 1 Mine.* This mine is located ten miles north of Fairmont, on the Paw Paw Branch of the B. & O. R. R. It is 256 ft. deep and is operating the Pittsburg seam of coal on the double entry system. The ventilation is produced by a fan and is good. The coal has formerly been mined by compressed air, but the company has lately installed an electric plant. This plant is of the latest improved type, and all safety appliances so far discovered have been attached to it. This mine gives off considerable explosive gas. Flameless powder is used. All shots are fired by competent shot firers. Safety lamps are used exclusively. Mine rules are posted. The second opening meets the requirements of the mining laws. Fire-bosses are on duty day and night. Blankets and stretchers are kept at the mine. The mine is under atmospheric deposit of moisture. The moisture is produced by steam. No dust in suspension.

W. C. TUCKER, Supt.

WM. JONES, Mine Foreman.

LUKE ROGERS,

HARRY LOCKE,

JNO. STEPHENSON,

Fire Bosses.

PARKER RUN COAL & COKE COMPANY.

Series No. 132. *Parker Run Mine.* This mine is located near Rivesville, on the Monongahela River. It is a drift mine operating the Sewickley seam of coal, on the double entry system. The coal is 6 ft. thick and of a good quality. Ventilation is produced by a fan, and is good. A compressed air plant has been installed in this mine and all coal is mined by compressed air machines. Some gas is liberated in the mine. Open lights are used. The coal is hauled out by mules. A new up-to-date tiple has been erected at this mine, and the incline plane formerly used has been abandoned. Drainage is good. Powder is carried into the mine in 5 lb. cans. Oil for illuminating purposes is good. All the coal from this mine is delivered to market in boats, there being no railroad at this point. The mine is well taken care of, and is in a nice condition.

J. H. MARTIN, Supt.

W. C. MARTIN, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 133. *Murray Mine*.—This mine is located nine miles north of Fairmont on the Connellsville branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is natural and is fairly good, since many of the headings are driven through the hill, and air comes in the mine in a dozen or more places. Coal is mined by use of electric chain machines, and hauled to tipple by endless rope. Maps of this mine have been furnished this office promptly. Powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is of a good quality. Drainage is fairly good. Blankets and stretchers are kept at the mine. Mine rules are posted. The mine is well taken care of.

H. M. SMITH, Supt.

WM. HESS, Mine Foreman

CATAWBA COAL & COKE COMPANY.

Series No. 1434. *Catawba Mine*. This mine is located on the Connellsville Branch of the B. & O. R. R. Operating the Pittsburg seam of coal on the double entry system. This mine is eight miles north of Fairmont. It is a new opening, and little coal has been mined as yet. The coal is delivered to the R. R. over an incline plane about 500 ft. in length. Ventilation is good. Drainage is good. The second opening meets the requirements of the mining laws. Powder is carried into the mine in 5 lb. cans. This mine is well taken care of.

GEO. RODAHEAVER, Supt. & Mine Foreman.

PITTSBURG STEAM COAL COMPANY.

Series No. 135. *Elizabeth Mine*.—This mine is located six miles north of Fairmont on the Connellsville Branch of the B. & O. R. R. It is operating the Pittsburg seam of coal, on the double entry system. Ventilation is produced by a furnace and is good. All coal is mined with picks, and hauled out by horses, and delivered to the railroad over an incline 180 ft. long. Powder is carried into the mines in 5 lb. cans. Oil used for illuminating purposes is good. Maps of this mine have been furnished this office. The second opening meets with the requirements of the mining laws. Mine rules are posted. Blankets and stretchers are kept at the mine. This is a new mine and is well taken care of.

JOS. BAILEY, Supt.

GRANT SWISHER, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 136. *Montana Mine*. This mine is located five miles north of Fairmont on the Connellsville Branch of the B. & O. R. R. It is operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. Drainage is good. This mine has some bad roof but is well timbered. Loose slate is taken down and loaded out, this extra handling of slate adds to cost of production. The coal is mined by electric chain machines, and hauled to bottom of slope by motors. It

is delivered to tipple by being drawn up slope, a distance of 300 ft. by use of rope. Mine rules are posted. Blankets and stretchers are kept at the mine. Oil for illuminating purposes is good. Maps of this mine have been furnished this office promptly. The mine is in good condition and well taken care of.

HARRY BAINBRIDGE, Supt.

W. H. MALONE,

WM. GASKILL,

Mine Foremen.

FAIRMONT COAL COMPANY.

Series No. 137. *Gaston Mine*.—This mine is located two miles south of Fairmont, on the M. R. division of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. Drainage is good. Explosive gas is liberated in different parts of this mine. Flameless powder is used. All shots are fired by competent shot firers. The coal is mined by electric chain machines, and hauled by motors and tail rope. The second opening meets with the requirements of the mining laws. The oil found in the mine was good. Maps of this mine have been furnished this office. Mine rules are posted. Blankets and stretchers are kept at the mine. Fire-bosses are on duty day and night. The mine is kept clean, well taken care of, and is in good condition.

GEO. GASKILL, Supt.

PERRY VERNON, Mine Foreman.

ARTHUR EVANS,

PETER McLINDEN,

Fire Bosses,

FAIRMONT COAL COMPANY.

Series No. 138. *New England Mine*.—This mine is located two miles south of Fairmont, on the M. R. branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. The moisture is produced by steam. Drainage is fairly good. A shaft has lately been sunk in the interior of this mine for ventilating purposes. Water from the mine is being pumped out at this shaft. The coal in this mine is being under-cut by electric chain machines, and hauled out by motors. Mine rules are posted. The second opening meets the requirements of the mining laws. This mine liberates a small quantity of explosive gas. Fire-bosses are on duty day and night. Open lights are used. Oil for illuminating purposes is of a good quality. Blankets and stretchers are kept at the mine. The mine is well taken care of and is in good condition.

H. C. ASH, Supt.

B. G. ASH, Mine Foreman.

THOS. RIGGINS,

THOS. HAY,

D. R. THOMAS,

Fire Bosses.

FAIRMONT COAL COMPANY.

Series No. 139. *Monongah No. 6 Mine.*—Located six miles south of Fairmont on the M. R. Branch of the B. & O. R. R. It is a slope mine operating the Pittsburg seam of coal. This mine has seven main entries leading into the interior of the mine. The room and pillar work is on the double entry system. Ventilation is produced by a fan, and is good. This mine is kept under atmospheric deposit of moisture. The moisture is produced by steam. Drainage is good. The second opening meets the requirements of the mining laws. Safety powder is used exclusively. All shots are fired by competent shot-firers. Fire-bosses are on duty day and night. Maps of this mine have been furnished this office promptly. A very small quantity of explosive gas is liberated. Open lights are used. Oil for illuminating purposes is good. This is a beautiful mine and is well taken care of.

DAVID VICTOR, Supt.

JAS. GASKILL, Mine Foreman.

WALTER BROWNE,

LEW LEWIS,

WM. MYRES,

Fire Bosses.

Series No. 140. *Monongah No. 2 or 5.*—This is a drift mine operating the Pittsburg seam of coal, on the double entry system. It is located six miles south of Fairmont on the M. R. Branch of the B. & O. R. R. Ventilation is produced by two fans, and is good. The second opening meets with the requirements of the mining laws. The coal from Shaver mine is hauled through this mine by use of electric motors. Mine rules are posted. Maps of this mine have been furnished this office promptly. The oil in use in the mine is of a good quality. Blankets and stretchers are kept at the mine. The mine is under atmospheric deposit of moisture. Moisture is produced by steam. This mine is well taken care of.

DAVID VICTOR, Supt.

ELZA LEVEL, Mine Foreman.

Series No. 141. *Shaver No. 1 Mine.*—This mine is located six miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. Drainage is good. Coal is mined by electric chain machines, and hauled out by motors. All steel tamping-bars and steel needles have been removed from this mine. Miners fire their own shots. Powder is carried into the mine in 5 lb. cans. Maps of the mine have been furnished this office. Mine rules are posted. Oil used for illuminating purposes is good. Blankets and stretchers are kept at the mine. This mine is well taken care of.

DAVID VICTOR, Supt.

ELZA LEVEL AND PATRICK COSTELO.

Mine Foremen.

Series No. 141a. *Shaver Mine No. 2.*—This mine is situated six miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine, operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. Drainage is good. The

coal is mined by electric chain machines. Black powder is used and miners fire their own shots. Open lights are used. Mine rules are posted. Oil found in use is fairly good. All powder is carried in the mine in 5 lb. cans. Timbering is good. Blankets and stretchers are kept at the mine. The coal from this mine is hauled through Mine No. 2 or No. 5 as now numbered. This mine is well taken care of.

DAVID VICTOR, Supt.

ELZA LEVEL, Mine Foreman.

PATRICK COSTELO, Ass't Mine Foreman.

Series No. 142. *Monongah No. 8.*—This mine is located seven miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal. Seven parallel main entries are driven into the interior of this mine. The room and pillar work is on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by use of steam. Drainage is good. A small quantity of explosive gas is liberated. Open lights are used. Flameless powder is used exclusively. All shots are fired by competent shot-firers. Fire-bosses are on duty day and night. Maps of this mine have been furnished this office promptly. Mine rules are posted. Blankets and stretchers are kept at the mine. This is one of the most beautiful mines in the state, and is well taken care of.

DAVID VICTOR, Supt.

PETER McGRAW, Mine Foreman.

S. S. DAVIDSON,

T. P. GANDY,

W. J. DAVIS,

Fire Bosses.

Series No. 143. *Pennois Mine.*—This mine is located seven miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. All coal is mined with picks, and hauled out by mules. The second opening meets the requirements of the mining laws. Mine rules are posted. The oil used in the mine is good. Maps of this mine have been furnished this office promptly. This mine is well taken care of. All steel tamping bars have been removed from the mine, and should be taken from all mines.

RUSH MILLER, Supt.

A. K. PARSONS, Mine Foreman.

HARRY B. COAL COMPANY.

Series No. 144. *Harry No. 1 Mine.*—Is located ten miles south of Fairmont. Is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a furnace and is good. Drainage is good. All coal is mined with picks, and hauled to tipple by mules. The second opening meets the requirements of the mining laws. The coal in this mine is of a good quality, being low in sulphur at this particular point. Mine rules are posted. Blankets and stretchers are kept at the mine. Powder is carried into the mines in 5 lb. cans. Maps of this mine have been furnished this office promptly. Oil used for illuminating purposes is of a good quality.

HARRY B. CLARK, Supt.

GEO. COBURN, Mine Foreman.

Series No. 145. *Harry No. 2 Mine*.—Is located on the M. R. Branch of the B. & O. R. R. ten miles south of Fairmont. It is a drift mine operating the Pittsburg seam of coal on the double entry system. The coal is of a splendid quality at this particular point, being very low in sulphur. Ventilation is produced by a furnace and is good. Drainage is good. Powder is carried in the mine in 5 lb. cans. The oil used for illuminating purposes is good. All coal is mined by picks and hauled to the tippie by mules and horses. Maps of this mine have been furnished this office promptly. Blankets and stretchers are kept at the mine. Open lights are used. Black powder is used for blasting the coal. Miners fire their own shots. Mine rules are posted.

HARRY B. CLARK, Supt.

GEO. COBURN, Mine Foreman.

KILARM COAL & COKE COMPANY.

Series No. 146. *Kilarm No. 2 Mine*.—This mine is located ten miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. Ventilation is produced by a furnace, aid is good. Drainage is good. All coal is mined with picks and hauled to the tippie by horses and mules. Black powder is used for blasting the coal. The miners fire their own shots. Open lights are used. Oil used for illuminating purposes is fairly good. Maps of this mine are furnished this office promptly. The second opening meets with the requirements of the mining laws.

C. E. ZEEK, Supt.

W. E. SMALLWOOD, Mine Foreman.

Series No. 147. *Kilarm No. 1 Mine*.—Is located ten miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. The roof of this mine is not good, being of a soft nature and slacks when the air comes in contact with it. The mine is troubled with some bad faults that nearly cuts the coal out in some sections of the mine. Cwing to bad conditions a large section of this mine has been abandoned during this year. All coal is mined with picks, and hauled to the tippie by mules. Mine rules are posted. Maps of the mine have been furnished this office promptly. The second opening meets the requirements of the mining laws. Powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is good.

C. E. ZEEK, Supt.

W. E. SMALLWOOD, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 148.—*Anderson Mine*.—Is located on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. Drainage is good. This is an old mine and the coal is being mined at present on the retreat. The second opening meets with the requirements of the mining laws. Mine rules are posted. Blankets and stretchers are kept at the mine. Maps of this mine have been furnished this office promptly. All powder is carried into the mines in 5 lb. cans. Oil used for illuminating purposes is good. All coal is mined with picks and

hauled out by electric motors. All steel tamping bars have been removed from the mine.

RUSH MILLER, Supt.

MILTON COBURN, Mine Foreman.

Series No. 149. *Highland Mine*.—This mine is located eight miles south of Fairmont, on the M. R. branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. The second opening meets with the requirements of the mining laws. The coal is mined by electric chain machines, and hauled out by motors. Mine rules are posted. Blankets and stretchers are kept at the mine. Black powder is used for blasting the coal. Miners fire their own shots. All steel tamping-bars have been removed from the mine. All powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is of a good quality. This mine is kept under atmospheric deposit of moisture. Maps of the mine have been furnished this office promptly.

RUSH MILLER, Supt.

JNO. PRUNTY, Mine Foreman.

Series No. 150. *Middleton Mine*.—This mine is located eight miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. Drainage is good. The coal is mined by use of electric chain machines. Black powder is used for blasting the coal. Coal is hauled out by motors. Miners fire their own shots. All steel tamping bars and steel needles have been removed from the mines. Powder is carried into the mines in 5 lb. cans. The second opening meets the requirements of the mining laws. Oil used for illuminating purposes is good. Mine rules are posted. Maps of this mine have been furnished this office promptly. Blankets and stretchers are kept at the mine.

RUSH MILLER, Supt.

BLAND COURTNEY, Mine Foreman.

Series No. 151. *Chiefton Mines*.—Is located nine miles south of Fairmont on the M. R. branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. The second opening meets with the requirements of the mining laws. Drainage is good. Black powder is used for blasting the coal. Miners fire their own shots. All steel tamping-bars and steel needles have been removed from the mine. Mine rules are posted. Maps of this mine have been furnished this office promptly. All coal is mined with electric chain machines, and hauled out by motors.

RUSH MILLER, Supt.

L. E. HENDERSON, Mine Foreman.

Series No. 152. *Hutchinson Mine*.—Is located 13 miles south of Fairmont on the M. R. branch of the B. & O. R. R. It is a slope mine operated in the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. Drainage is good. Coal is mined by use of electric chain machines, and hauled to bottom of slope by horses and endless rope. It is delivered to tipple by

being drawn up, a slope 240 feet, by means of rope. This is a nice mine and is well taken care of. Mine rules are posted. All shots are fired by competent shot-firers. Blankets and stretchers are kept at the mine. All steel tamping-bars and steel needles have been removed from the mines. All powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is good. Maps of the mine have been furnished this office promptly.

BROOKS FLEMING, JR., Supt.

THOS. BURLUCK, Mine Foreman.

THE VIRGINIA AND PITTSBURG COAL & COKE COMPANY.

Series No. 153. *Kingmont Mine*.—Is located six miles east of Fairmont, on the B. & O. R. R. It is a drift mine operated in the Pittsburg seam of coal, on the double entry system. Ventilation is produced by a fan and is good. This mine has a capacity of 2000 tons per day. All coal is mined with picks and is produced much cheaper than where machines are used in mines of same capacity. The coal is delivered to the tippie by means of tail rope. All powder is carried into the mines in 5 lb. cans. Oil used is of a fairly good quality. Maps have been furnished this office. This is a beautiful mine and is well taken care of. The coal is of a splendid quality.

R. M. HITE, Supt. JOHN BROWN and WM. JARRETT, Mine Foreman.

SECOND DISTRICT.

GENERAL SUMMARY OF THE SECOND MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Harrison	67 13	1,000	1,143	305	834	3,282	634		634	3,916	3,005,689	275	
Lewis	1		35	8	7	50	5		5	55	13,780		
Upshur	4 2	50	35	8	10	103	12		12	115	60,589		
Totals	72 15	1,050	1,213	321	851	3,435	651		651	4,086	3,080,058	275	

FRANK E. PARSONS,
Inspector Second District.

OFFICE OF SECOND DISTRICT MINE INSPECTOR.
CLARKSBURG, W. VA., July 1, 1909.

HON. JOHN LAING.

Chief of the Department of Mines,
Charleston, West Virginia.

SIR:—In compliance with the law which created the Department of Mines of the State of West Virginia, it is my duty and also my pleasure to submit to you my Annual Report for the year ending June 30, 1909, as Inspector for the Second Mining District of the State. This District is composed of the following counties, viz.: Doddridge, Lewis, Harrison, Ritchie, Upshur and Webster.

The counties are centrally located in West Virginia and are underlaid with coal seams which vary in thickness, and are of great commercial value of steam, domestic and coking purposes. The principal one being the famous Pittsburg Seam. In this seam alone there are sixty-two commercial mines operating in this District (this includes the new mine reported as the Marion Mine, which is not yet shipping coal, but does not include thirteen other openings which have been abandoned, connected underground, and are working in connection with other mines, etc.) There are also five operations in the Redstone Seam, and one operation in the Masontown Seam, making a total of sixty-eight commercial coal mines

in the District, sixty-two of which are located in Harrison county, five in Upshur county and one in Lewis county. In addition to this there is one small graphite mine located in Ritchie county which is worked in a very primitive manner and was not visited by the Inspector during the past year.

The inside development of quite a number of the mines in this District are very large, as they have been in operation for several years, and require from two to four days to make a satisfactory inspection.

I am pleased to report that there has been a very material improvement made during the past year as to the general safety, drainage and sanitary condition of a large number of the mines operating in this District. These improvements were not all made at the suggestion of the Inspector or by his recommendations, but in a number of cases were made voluntarily by the operating companies, notwithstanding the fact that the coal business has been very inactive and discouraging during the past year.

In my judgment the most dangerous element found in the mines in this District, is fine, dry coal dust, and I have used the most rigorous insistence that all mines and sections of mines which are inclined to be dry and dusty be kept thoroughly wet by a systematic watering of same, and in most cases, I have had the hearty co-operation of the operators, and in nearly all of the larger mines in the District, an up-to-date system of watering with hose has been installed, and when properly used, wets the dust in a most satisfactory manner.

Another latent danger found in several of the mines of this District, is small quantities of explosive gas liberating from the working faces in sections of the mine. It has been my experience that a large percentage of the disasters caused by explosive gas in coal mines, have occurred in mines of this character where the gas was not considered to be liberating in dangerous quantities, and for this reason was not receiving the care and attention that is given to mines that are considered dangerous from this standpoint, and without the knowledge of anyone, a feeder of sufficient magnitude to cause an accumulation of gas, would be liberated in a section of a mine, which by reason of elevation and lack of proper ventilation, etc., was favorable, and the gas would accumulate and a disaster would occur with its ignition. Realizing the dangers from this standpoint, I have not missed an opportunity to impress on the miners and mine officials of all such mines, the importance of sufficient ventilation to be maintained at the working faces constantly, and that all such places be examined by a safety lamp in the hands of a skilled man, before the men are permitted to enter therein for the purpose of working. Of course, the law does not prescribe that all these precautions be taken in such mines, neither does the law of health prescribe to the sick man his diet, yet the prudent physician does, and all mine officials connected with such coal mines should be prudent men and at all times exercise the best care, skill and judgment possible.

I have had but very little trouble in the past year to have recommendations complied with as to all matters of importance concerning the general safety and sanitary conditions in the mines of this District. I have

however, met with some obstinacy and resistance, which happily, I have been able to overcome without having to resort to legal proceedings to have the law complied with.

The ventilation, as a rule, of the mines in this District, is good. In a majority of the larger mines, the stoppings which separate inlet from outlet currents of air along all important headings, are constructed of masonry, being either concrete or brick, and the overcasts are constructed of the same material, which makes them non-combustible and very serviceable.

The clerical duties connected with the office of the Inspector of this District, by reason of a large official correspondence with the miners and operators in the District, and by reason of numerous reports, etc., required by law are very onerous with the facilities at hand, in connection with his other duties, and I think better results would be obtained if ample facilities be offered by law to the District Inspectors for proper care of maps, records and correspondence, which is of great importance in connection with the work of an Inspector.

Another matter of still more vital importance in connection with the mining industry of this State, and which should attract the attention of our law making bodies at the coming session of the Legislature, is the enactment of a law prescribing conditions of protection to mine workings and coal properties which are being penetrated by oil and gas wells in this State. This law should be so framed that it will not be inimical to either interest if possible to do so. Other than the matters mentioned above, with a full compliance of the present law, the Inspector of this District has no particular reason to complain.

But few of the mines in this District have been running on full time during the past year, owing to the general depression of business, and for this reason, both miners and mine operators have suffered great financial loss.

Reports of all accidents happening at the mines in this District, have been forwarded to your office as far as I have any knowledge of, and you will notice that the most prolific source of accidents is the falls of roof, the character of which you will find described in connection with the description of the mines in this District.

In conclusion, I desire to thank the miners, mine officials and mine operators in this District, for their co-operation with the Department in having the law complied with, and for the many courtesies and kindnesses which I have personally received at their hands, and I desire to assure them of my full appreciation of the same and that they have my best wishes for their future prosperity.

I also desire to extend to yourself and Mr. Paul, as heads of the Department, sincere thanks for assistance and advice promptly rendered.

Very truly,

FRANK E. PARSONS,
Inspector Second District.

CONDITION OF THE MINES IN THE SECOND DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 210 indicates the second district and number 10 mine.

HARRISON COUNTY.

FAIRMONT COAL COMPANY.

Series No. 201. *Enterprise Mine, Pittsburg Seam, Slope.*—This mine is located nineteen miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and is ventilated by a 20 ft. Capell fan. The ventilating current is split in the interior of the mine to the different working sections, and has always been found ample to make the mine first-class as to sanitary conditions. The drainage is good. A small quantity of marsh gas was found to be liberating in places on dates of some of my visits, but this gas was well being taken care of by means of concrete stoppings on the mains, and of good serviceable stoppings on the Butt or Room headings. Timbering is being carefully looked after and this mine fully complies with the requirements of the State Mine Laws as to all matters of importance. The capacity of this mine with a full force of men would probably reach from 1800 to 2000 tons daily. If the present tippie, which is only temporary, is of sufficient capacity to take care of this output, as the Company had the misfortune during the past year to have their tippie, which was very large and up-to-date destroyed by fire, and as yet have not rebuilt permanently. The coal is undercut and hauled to the tippie by electricity.

H. H. WATSON, Supt.

THOMAS SMITH, Mine Foreman.

H. C. ICE, Asst. Supt.

Series No. 202. *Melrose Mine, Pittsburg Seam, Drift.*—This mine is located 18½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad, and has not been in operation during the past year. I have understood that this coal will be mined from the Enterprise and Viropa Mines. However, I am not sure, as I did not get this information officially.

H. H. WATSON, Supt.

Series No. 203. *Viropa Mine, Pittsburg Seam, Drift.*—This mine is located 18 miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio railroad. The ventilation is produced by a 10-ft. Connellsville fan with electric connection, the efficiency of which is over 100,000 cubic feet of air per minute, which is fairly well distributed throughout the entire development of the mine, making sanitary conditions good. The stoppings along the Main entries are constructed of concrete and stoppings on Butt or Room entries are built of tongued and

grooved lumber and are as a rule, very serviceable. The coal is undercut by electric machines and is hauled to the tippie by electric motors. The overlying strata is of fire clay and requires careful timbering and watching, which is well looked after by the officials in charge of the physical development of the mine. The drainage is only fair in some sections of the mine by reason of local dips, etc., but a great deal of ditching has been done during the past year and great improvements have been made along this line. No gas is found and the dust is being carefully watched and watered by means of a hose and has always been found in a satisfactory condition. This mine with the present equipment and development is capable of producing from 1200 to 1500 tons daily, and State Mine Laws are well observed.

H. H. WATSON, Supt.

FLOYD GANDY, Mine Foreman.

C. F. ICE, Asst. Supt.

Series No. 204. *Riverdale Mine, Pittsburg Seam, Drift.*—This mine is located 17½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. disc fan of the Stine type, has always been found ample to make sanitary conditions to fully comply with the State Mine Laws. By reason of local dips and local conditions in the mine, drainage is only fair, and a great deal of trouble is experienced by the Company in handling the water, by means of ditching, bailing and pumping. The top or overlying strata is fire clay which requires careful watching and timbering. Top coal however, is maintained in a large measure throughout this mine. No gas is found. Dust well taken care of on date of visits. The coal is undercut by electric machines of the chain type and hauled to the drift mine by means of electric motor and from thence it is hoisted to the tippie by a mechanical arrangement locally known as a chain haulage. This mine with the present equipment and development is capable of producing from 600 to 700 tons daily output. Mine laws are well observed in all matters of importance.

H. H. WATSON, Supt.

SAM LEWIS and WM. WALLACE,

HARRY HIGGINBOTHAM, Asst. Supt.

Mine Foremen.

VIRGINIA-MARYLAND COAL CORPORATION.

Series No. 205. *Willard No. 1, Pittsburg Seam, Drift.*—This mine is located 17½ miles north of Clarksburg, West Virginia, on Mud Lick Run, on a branch off of the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and the ventilation at the present time is produced by a 6 ft. disc fan of the Stine type, and has always been found fairly sanitary throughout the development, but the development is fast outgrowing the present ventilating equipment, and on date of last visit the management was found engaged in grading a location for a new fan of sufficient dimensions to ventilate future development. The old fan will be used for their No. 2 Mine, which is much smaller in reference to area of development. The coal is undercut by

compressed air machines of the puncher type, and at the present time is being hauled to the tippie by means of mules and horses, but plans are being made to install a mechanical haulage. The drainage in nearly all the working places was found to be good, but some standing water was found along the Main Haulway on the inside. This water will have to be handled for the present by means of a pump. The top or overlying strata is fire clay and requires careful timbering. Top coal, however, is maintained along all the haulways and in most of the room workings. No gas has ever been found in this mine. On date of last visit, the Inspector was of the opinion that the oil being used did not fully comply with the State Mine Laws. Their attention was called to this matter and the management agreed with the Inspector that the oil being sold and used was in excess of smoke, and the matter was talked over with the Store Manager who said that he would immediately remedy this matter by purchasing oil of a superior grade and would cease selling this oil, which however, had been sold to him under an absolute guarantee. Otherwise this mine fully complies with the State Mine Laws. With the present development and with a full force of men and present equipment, this mine is capable of producing 400 tons daily output.

A. L. WHITE, Supt.

ELI MORRIS, Mine Foreman.

Series No. 206. *Willard No. 2, Pittsburg Seam, Drift.*—This mine is located $17\frac{1}{2}$ miles north of Clarksburg, West Virginia, on Mud Lick Run, on a branch off of the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and ventilated by means of an open grate. The ventilation has always been found ample to comply with the State Mine Laws. The drainage is bad on account of the workings going to the dip. The water is handled by means of pumps and by bailing. The coal is undercut by picks and by compressed air machines of the puncher type. The overlying strata is fire clay but top coal is maintained throughout the entire development. Coal is hauled by mules and horses and dumped over the same tippie as No. 1. State Mine Laws are being observed. With the present development and equipment and a full force of men, this mine is capable of producing 100 tons daily.

A. L. WHITE, Supt.

ELI MORRIS, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 207. *Ehlen No. 3, Pittsburg Seam, Drift.*—This mine is located $15\frac{1}{2}$ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 10 ft. Crawford & McCrimmon fan, which has recently been changed from direct steam connection to electric connection, and conducted throughout the interior of the mine by means of concrete and wooden stoppings, has always been found ample to fully comply with State Mine Laws in all working sections. A small quantity of explosive gas was found liberating in one section of this mine on one of my former visits. This was well taken care of however, by means of serviceable stoppings and sufficient air. Coal

is undercut by electric machines of the chain type and hauled through a portion of the No. 1 Mine and dumped over the same tipple in conjunction with the output of No. 1 Mine. The top is of fire clay and requires careful watching and timbering, which is being looked after. The water is handled by pumps and fairly well taken care of. An electric haulage motor has recently been installed, which hauls the output of this mine as well as that of No. 1, to the drift mouth at No. 1, and from thence it is hauled to the tipple up an engine plane by means of head rope. State Mine Laws are being well observed and the condition of this mine on date of last visit was found to be very satisfactory. The present development and equipment of this mine is capable of producing 400 tons daily.

THOMAS JARRETT, Supt.

CLAUDE ADDISON, Mine Foreman.

CHARLES WATKINS, Asst. Supt.

Series No. 208. *Ehlen No. 1, Pittsburg Seam, Drift.*—This mine is located 15½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and ventilation, which is produced by a 12 ft. Crawford & McCrimmon fan, is good throughout the development. Small quantities of explosive gas was found during the past year liberating on some of my former visits in some sections of this mine, but was being well taken care of by means of serviceable stoppings and sufficient air. On date of last visit however, no gas was found. Water is handled by pumps and found in good condition. The top is very bad, in places where the top coal is removed, which requires constant attention and careful timbering. Coal is undercut by electric machines and with pick, and hauled to the drift mouth by electric motor and is transported to the tipple in the same manner as described in No. 3. The State Mine Laws are being well observed. A full force of men with the present development and equipment could produce 500 tons daily.

THOS. JARRETT, Supt.

CLAUDE ADDISON, Mine Foreman.

CHARLES WATKINS, Asst. Supt.

Series No. 209. *Solon Mine, Pittsburg Seam—Drift.*—This mine is located about 15 miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and the ventilation which is produced by a 16 ft. curved blade fan, with direct steam connection, has always been found ample to fully comply with the State Mine Laws. On one of my visits during the past year, explosive gas was found liberating in such quantities as to make it necessary to recommend to the operating company that a man qualified under the Law, as Fire Boss, be put on and that a record be kept as per the requirements of the State Mine Laws. This was done at once. On date of last visit, while some gas was found to be liberating, it was in very much smaller quantities and was being well taken care of, as per recommendation. Coal is undercut by electric machines of the chain type, and by pick, and hauled to the junction on the inside with mules and horses, and from thence to the tipple by means of endless rope. The drainage in most of the working sections is good. There is one section how-

ever, in which the drainage is very bad. The top is fire clay and is very dangerous when all the coal is removed. The top coal however, is maintained in most places where possible to do so. State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing from 700 to 800 tons daily output.

THOS. JARRETT, Supt.

OLVER BUSH, Mine Foreman.

CHARLES WATKNS, Asst. Supt.

Series No. 210. *Harbert Mine or Gypsy No. 7, Pittsburg Seam, Drift.*—This mine is located 12½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 7 ft. Stine fan with electric connection, is ample and fully complies with the State Mine Laws. The overlying strata is fire clay and draw slate, and requires careful attention as to timbering when the top coal is removed and it is exposed. Drainage on date of last visit needed some attention in some sections. This mine formerly liberated small quantities of gas, but during the past year no gas has been found. The coal is undercut with electric machines of chain type and is hauled to the junction on the inside of Gypsy Mine (these two mines being connected under ground), from thence it is hauled by endless rope to Gypsy tippie, where it is dumped into the Railroad car. State Mine Laws are being fully observed. With a full force of men and with the present equipment and development, this mine is capable of producing 500 tons daily.

C. F. ICE, Supt.

BERT RUSSELL, Mine Foreman.

L. W. SMITH, Supt.

F. E. GIROD, Asst. Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 211. *Gypsy Mine—Pittsburg Seam—drift.*—This mine is located 12 miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system. The ventilation which is produced by a 20 ft. Capell fan with direct steam connection, is good throughout the development. Small quantities of explosive gas liberate in some sections but is well taken care of by means of serviceable stoppings and sufficient air. By reason of local conditions, drainage is only fair. Especially is this the case during the rainy season, the water being handled exclusively by pumps, of which there is quite a large number found on the inside, of different types, all of which are being driven by electricity. The coal is undercut and hauled to the junction by electric equipments and from there it is conveyed to the tippie by means of endless rope. The top is of a slippery, potty nature when exposed, but, however, top coal is maintained along all haulways and in all working places where possible to do so. With the present development and equipment and with a full force of men, this mine is capable of producing 2500 tons daily. The State Mine Laws are being well observed at this mine.

BERT RUSSELL, Mine Foreman.

C. F. ICE, Supt.

LUTHER KING, Asst. Mine Foreman.

L. W. SMITH, Supt.

Series No. 212. *Maulsby Mine—Pittsburg Seam—drift.*—This mine is located 11 miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and is connected under ground with the Gypsy Mine. No part of this development however, has been in operation during the past year. I am informed by officials of the Company that when put in operation this mine will be worked in conjunction with the Gypsy mine.

C. F. ICE, Supt.

L. W. SMITH, Supt.

Series No. 213. *Meadowbrook Mine No. 1—Pittsburg Seam—drift.*—This mine is located nine miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system. The ventilation (which is produced by two fans, one of which is a disc fan of the Stine type, being 7 ft. in diameter and the other being a Crawford & McCrimmon, 12 ft. in diameter) is good throughout the development. The top or overlying strata is of fire clay nature and is very brittle when exposed to the air, requiring exceedingly careful timbering, and is receiving good attention by the management on the ground. No gas found. Drainage only fair on account of local conditions along Haulways, but all or nearly all of the working places are well drained. The coal is undercut and hauled by electricity. The State Mine Laws are being well observed at this mine. With the present equipment and development and with a full force of men, this mine is capable of producing 600 tons daily.

C. D. POWELL, Mine Foreman.

A. C. POLING, Supt.

GEORGE HAMBRICK, Mine Foreman.

Series No. 213a. *Meadowbrook No. 2—Pittsburg Seam—drift.*—This mine is located nine miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced partly by the 7 ft. Stine fan mentioned in the description of No. 1 Mine, and a portion of which is ventilated naturally, is good throughout the development, conditions being exceedingly favorable for natural ventilation in that section of the mine which is ventilated naturally.. No gas is found. Top is rather bad and requires careful timbering when exposed, but top coal however, is maintained throughout the development where possible to do so. Coal is undercut and hauled with electrical equipment, (with the exception of a few pick places) to the mouth of drift No. 1 through a portion of the No. 1 Mine. Drainage is fairly good and the Mine Laws are being well

observed. With the present equipment and development and with a full force of men, this mine is capable of producing 200 tons daily.

C. D. POWELL, Mine Foreman.

A. C. POLING, Supt.

GEORGE HAMBRICK, Mine Foreman.

Series No. 214. *Girard No. 1—Pittsburg Seam—drift.*—This mine is located nine miles north of Clarksburg, W. Va., on a branch off of the

M. R. Division of the Baltimore & Ohio Railroad, on Simpson Creek. It is opened up on the double entry system and the ventilation which is produced by a 7 ft. Stine fan, driven by steam engine, with belt connection, has always been found ample to fully comply with the State Mine Laws. The top is exceedingly good for the Pittsburg Seam. No gas has ever been found. The drainage by reason of local conditions, is bad in some sections of this development, but these sections where the water is found standing, has not been in operation during the past year. The present working sections of the mine are well drained. The coal is undercut with electric machines of the chain cutter type and hauled to the tippie by means of electric motor. State Mine Laws are well observed. With the present equipment and development and with a full force of men, this mine is capable of producing from 1,000 to 1,200 tons daily.

E. P. McOLVIN, Mine Foreman.

P. B. ROBINSON, Supt.

Series No. 215. *No. 2 at Girard No. 1—Pittsburg Seam—drift.*—This mine is located 9 miles North of Clarksburg, W. Va., on the branch spoken of in describing No. 1 opening. It is opened up on the double entry system and the ventilation which is produced by a 10 ft. Crawford & McCrimmon fan, electrically driven, is only fair on account of the improper construction of the fan house, and the power of the motor which drives the fan being inadequate to propel the fan at proper speed for full efficiency. However, the ventilation is ample for the present development to comply with the State Mine Laws. Coal is undercut by electric machines and hauled by the same motor described in connection with No. 1 Mine, through a section of the No. 1 Mine, to the same tippie and dumped in conjunction with the output of the No. 1 Mine. The top is good, top coal being maintained throughout the development where it is possible to do so. Drainage is good throughout the development with a few exceptions, and in this section a pump is installed which is ample to take care of all the water. State Mine Laws are being observed. No gas has ever been found. With a full force of men and with the present equipment and development, this mine would be capable of producing 400 tons daily.

E. P. McOLVIN, Mine Foreman.

P. B. ROBINSON, Supt.

Series No. 216. *Globe Mine—Pittsburg Seam—drift-incline.*—This mine is located 6½ miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is developed on the double entry system and the ventilation which is produced by a 7 ft. Stine fan, has always been found good throughout the development. No gas has ever been found. The top when exposed, is draw slate, which requires careful timbering, but the greatest care has been exercised in maintaining top coal along all the Main haulways. Drainage in working sections is good. Coal is undercut by electric machines and also by pick, and hauled to the mouth of the drift by electric motor where it is lowered by gravity to the tippie. The State Mine Laws are being well observed. With a full force of men and with the present equipment and development, this mine is capable of producing 600 tons daily.

P. J. McANDREWS,

Supt. & Mine Foreman.

Series No. 217. *Farnum Mine—Pittsburg Seam—drift.* This mine is located about 5 miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad and has not been in operation during the past year, and I am informed by officials of the Company that when this mine is put in operation, it will be connected underground with the Globe mine, and coal will be hauled to the mouth of Globe drift and lowered to the tipple in the same manner as described, in Globe Mine.

P. J. McANDREWS,
Supt. and Mine Foreman.

Series No. 218. *Glen Falls Mine—Pittsburg Seam—drift.*—This mine is located about 5 miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and was developed for several years, but for the past year has not been in operation.

LUKE MURRAY, Supt.

Series No. 219. *Dunham Mine—Pittsburg Seam, drift.*—This mine is located 5 miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and ventilation which is produced by a 12 foot curved blade fan, with electric connection, is good throughout the development. The roof is fairly good, but in places where all the coal is removed, it requires careful attention as to timbering. No gas has been found liberating in this mine during the past year. Dust is carefully looked after as to watering. Drainage only fair in some sections, but the management was planning to make improvements along this line on date of last visit. Coal is undercut by electric machines of chain cutter type and hauled to the drift mouth by electric motor. Mine Laws are well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

WALTER MILLER, Mine Foreman.

LUKE MURRAY, Supt.

CLARKSBURG FUEL COMPANY.

Series No. 220. *Fall Run Mine—Pittsburg Seam—drift.* This mine is located 3 miles North of Clarksburg, W. Va., on a branch off of the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 7 ft. Stine fan with electric connection, has always been found ample to fully comply with the State Mine Laws. The top or overlying strata is of draw slate of a slaggy nature, and requires very careful attention as to timbering in some sections. In other sections however, it is exceedingly good. Top coal is maintained in several of the most dangerous sections. Drainage is good in the right hand section while in some places on the left hand it is rather bad. No gas found during the past year. The coal is undercut by electric machines of the chain type and hauled to the tipple by electric motor. With a full force of men and with the present development and

equipments, this mine is capable of producing 1200 tons daily. State Mine Laws are being well observed.

S. L. SHRADER, Mine Foreman.

LUKE MURRAY, Supt.

CORONA COAL & COKE COMPANY.

Series No. 221. *Harold Mine—Pittsburg Seam—drift.* This mine is located two miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. The ventilation which is produced by a 5 ft. Stine fan with electric connection, is good in some sections of the mine and in other sections it is only fair, by reason of defective stoppings and for other reasons, the most important part of which is, the dimensions of the fan. No gas is found in this mine. Some dust was found on date of last visit and recommendations were left as to this dust. The top is draw slate and only fair in sections of the mine. In other sections by reason of numerous clay veins, the top is bad and requires very careful attention as to timbering, while in some sections the top is exceedingly good. The coal is undercut by electric machines and hauled to drift mouth by electric motor where it is lowered to the tippie by traction plane. State Mine Laws are being reasonably well observed, but recommendations were left by the Inspector for a full compliance, in some particulars. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily.

ED CLINGAN, Supt. and Mine Foreman.

CLARKSBURG FUEL COMPANY.

Series No. 222. *Pinnickinnick Mine—Pittsburg Seam—drift.*—This mine is located one mile East of Clarksburg, W. Va., on the Parkersburg branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 16 ft. Helmick fan, is good throughout the development. No gas has ever been found in the workings during the past year. The top or overlying strata is of draw slate and requires careful attention as to timbering in the room work. Along the Main entries where top coal is not maintained, the draw slate has been taken down and removed from the mine, leaving a covering of what is known as the checkered rock, which is exceedingly good. The water is handled in the greater part of the development by means of pumps and the Company has installed a pumping Station composed of two 1000 gallon per minute Centrifugal pumps electrically driven. These pumps are located centrally where the Company has two exceedingly large pumps. To the location of these pumps, the water on the interior of the larger sections of the mine is conducted by means of ditches and other pumps. From thence it is thrown to the outside through bore holes by means of the two pumps before mentioned. The coal has been undercut during the past year exclusively by electric machines (formerly compressed air machines were also used in connection). It is hauled to the junction on the inside by electric motors and from thence it is hauled to

the drift mouth and up the engine plane by means of endless rope and grip cars. The State Mine Laws are well observed at this mine. With a full force of men and with the present development and equipment, this mine is capable of producing 2600 tons daily.

THOS. POLLOCK, Mine Foreman.

J. H. NUZUM, Supt.

LOUIS DORSEY, Asst. Mine Foreman.

CENTRAL FAIRMONT COAL COMPANY.

Series No. 223. *Moore Mine—Pittsburg Seam—drift.*—This mine is located one mile East of Clarksburg, W. Va., on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced naturally, and by furnace, is only fair in that section of the mine which depends on the furnace. The section which is ventilated naturally, by reason of local conditions favorable to natural ventilation, is good throughout that portion of the development. The top or overlying strata is draw slate when all the coal is removed, and requires very careful attention as to timbering. Top coal however, is maintained in quite a large number of the working places. In these places when properly timbered, conditions are good as to roof. Drainage by reason of local dips, etc., is only fair. No gas found. State Mine Laws are observed. The coal is undercut by picks and hauled to the tippie by means of mules and horses. With a full force of men and with the present development and equipment, this mine is capable of producing 400 to 500 tons daily.

A. G. HILBURT, Mine Foreman.

FRED HOWARD, Supt.

VINCENT COAL COMPANY.

Series No. 224. *Grasselli Mine—Pittsburg Seam—drift incline.*—This mine is located about one mile East of Clarksburg, W. Va., on the Grasselli Branch off of the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by furnace, on dates of last visit was only fair in some sections of the mine, by reason of needed stoppings, etc. Recommendations were made, and I am informed they were immediately complied with, which remedied this matter. Top coal is maintained where possible to do so throughout the entire development. Where the top is broken, and the overlying strata is exposed, it requires very careful attention as to timbering. Drainage in a large section of this mine is rather bad on account of local conditions. The coal is undercut by pick and hauled to the top of the incline by means of mules and horses and from thence it is lowered by traction plane to the tippie. The State Mine Laws are well observed in all matters of importance. With the present development and equipment and a full force of men, this mine is capable of producing 400 tons daily.

GRANT WHITE, Mine Foreman.

VINCENT GOCKE, Supt.

CLARKSBURG FUEL COMPANY.

Series No. 225. *Despard Mine—Pittsburg Seam—drift.*—This mine is located about one mile East of Clarksburg, W. Va., on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system. The ventilation which is produced by a 8 ft. Stine fan, is exceedingly good in all working sections of this mine. No gas found. Top is draw slate when all the coal is removed, but in the working section of the mine they are maintaining top coal throughout. The operating Company has recently installed electric equipment for undercutting and hauling this coal, but as yet, they have not installed the haulage motors. The coal, however, is undercut by the electric machines of the chain type and at present is hauled to the tippie by means of horses and mules and from thence it is hoisted up on the tippie by means of a mechanical arrangement where it is dumped into the car. The State Mine Laws are well observed. Drainage is exceedingly good in a large portion of the mine and in the other portions, well taken care of by pumps. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily.

GEORGE BROOKS, Mine Foreman.

A. W. RAPP, Supt.

FAIRMONT COAL COMPANY.

Series No. 226. *Columbia Mine—Pittsburg Seam—drift.*—This mine is located two miles East of Clarksburg, W. Va., on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 16 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Law throughout the entire development. Small quantities of explosive gas liberates at the faces in some of the advanced workings, but is well taken care of by means of serviceable stoppings and sufficient air. The top or overlying strata is draw slate when all the coal is removed and along a number of the principal haulways the draw slate has been taken down and removed from the mine, leaving an exposed surface known as the checkered rock, which is very good. In some sections however, in the room workings especially, the nature of the top is different, requiring very careful attention as to timbering. The water in this mine is handled by means of pumps and natural drainage and in all working sections is being well taken care of. The State Mine Laws are being observed in all matters of importance. The coal is undercut by compressed air machines of the puncher type and is hauled to the junction on the inside of the mine by horses and mules and from thence by means of head and tail ropes, to the drift mouth and up engine plane to the tippie where it is dumped in the Railroad car. With a full force of men and with the present development and equipment, this mine is capable of producing 1500 tons daily.

MIKE ROONEY, Mine Foreman.

A. W. RAPP, Supt.

Series No. 227, *Ocean Mine—Pittsburg Seam—drift.* This mine is located three miles East of Clarksburg, W. Va., on the Parkersburg Branch

of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 15 ft. curved blade fan, with direct steam connection, is good throughout the entire development. The top in this mine changes as to character in the several sections, portions of which are exceedingly good while other portions would be considered fair and still other portions would be considered exceedingly bad, when all the coal is removed, and leaves the overlying strata exposed. Timbering however, is carefully looked after. The development in the section of the mine known as the "New Hill" is going to the dip very rapidly but very little water is encountered, and in sections where water would be expected it is found to be dry. This condition I presume is caused by the impervious nature of the overlying strata in this section of the mine. The drainage in that section of the mine known as the "Old Hill" is only fair. Standing water is found in the right hand side of the working off of the Main entry going to this section of the mine. The top in this section requires careful attention as to timbering. No gas has been found during the past year. The coal is undercut by means of pick and compressed air machines of the puncher type and it is hauled to the tippie from that section of the mine known as the "New Hill" by means of head and tail rope, and hauled from that section of the mine known as the "Old Hill" by means of mules and horses to the drift mouth where it is taken to the tippie in connection with the output from the "New Hill" by means of the ropes before mentioned. The State Mine Laws are being well observed. With a full force of men and with the present development and equipment, these mines are capable of producing 1800 tons daily.

U. B. BLAKESMITH,

K. D. BAILEY, Supt.

C. D. POWELL,

Mine Foremen

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 223. *Perry Mine No. 1—Pittsburg Seam—drift.* This mine is located three miles West of Clarksburg, W. Va., on a branch off of the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 16 ft. curved blade fan with direct steam connection has always been found ample to fully comply with the State Mine Laws. Small quantities of explosive gas is liberated in some of the advanced workings of this mine, but is being well taken care of by means of serviceable stoppings constructed of concrete along mains and good serviceable wooden stoppings along the room entries. The top or overlying strata in this mine is very bad when all the coal is removed and requires the most careful attention as to timbering. Top coal is maintained throughout the development when possible to do so. The coal is undercut by picks and electric machines of the chain type and is hauled to the tippie by electric motors. The drainage in this mine formerly was bad in sections, but recently the management has gone to a big expense in the way of ditching by recommendations made, which has greatly improved the condition of the interior as to drainage. The State Mine Laws are being well ob-

served. With a full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

ARTHUR MORGAN,

L. W. SMITH,

A. L. HORD,

ARTHUR MORGAN,

Mine Foremen.

Superintendents.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 229. *Perry Mine No. 2.—Pittsburg Seam.—drift.*—This mine is located three miles West of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 12 ft. Crawford & McCrimmon fan, with direct steam connection, is good throughout that portion of the mine which has been in operation during the past year. This development being rather large, a large portion of it has not been in operation during the past year and only sufficient ventilation has been maintained in this section of the mine to prevent accumulation of dangerous or noxious gases. The roof is very much the same nature as that described in No. 1 Mine, requiring the most careful attention as to timbering in places where all the coal has been removed. Small quantities of explosive gas has liberated formerly in sections of this mine, but during the past year none has been discovered in that part which is now working. The drainage in sections of this mine is rather bad by reason of local conditions. The water however, is taken care of by means of pumps in such a manner as to make it sanitary in the working places. The coal is undercut by electric machines and with picks, and hauled to the tipple by means of electric motors, this being a twin tipple, spans the ravine, separating this drift from No. 1 drift. The State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1500 tons daily.

ARTHUR MORGAN,

L. W. SMITH,

A. L. HORD,

ARTHUR MORGAN,

Mine Foremen.

Supts.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 230. *Perry Coalng Station Mine—Pittsburg Seam—drift incline.* This mine is located $2\frac{1}{2}$ miles West of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 10 ft. Charleston fan of the Disc Type, with electric connection, has always been found ample to fully comply with the State Mine Laws. The top or overlying strata is very bad in sections of this mine, when all the coal is removed, but top coal however is maintained throughout the development where possible to do so, and timbering is carefully looked after. Some gas was formerly found in this mine, but was well cared for by means of serviceable concrete stoppings in that section of the mine where gas was found liberating. Drainage is only fair, water being handled by pumps and in some sections by ditching. The coal is

undercut by electric machines of the chain type, and hauled to the drift mouth by mules and horses and lowered to the tippie by a traction plane. The State Mine Laws were well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

ARTHUR MORGAN,

A. L. HORD,

Mine Foremen.

L. W. SMITH,

ARTHUR MORGAN,

Supts.

MEADOWBROOK COAL & COKE COMPANY.

Series No. 231. *Erie Mine—Pittsburg Seam—drift.*—This mine is located six miles North of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 12 ft. Crawford & McCrimmon fan, is fairly good. There is room for improvement however, as to ventilation, and recommendations were made by the Inspector on date of last visit, which would in his judgment, greatly improve the ventilation in that section of the mine where most needed, (viz: South side). Top or overlying strata is only fair when all the coal is removed and requires care as to timbering. No gas is found. The coal is undercut by machines of both the electric and compressed air type. It is hauled to the drift mouth by means of electric motor and from thence it is hoisted up the engine plane to the tippie by head rope. The State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

S. S. LYTTON, Mine Foreman.

L. L. CRAWFORD,

EARL GARRETT,

Supts.

HARRISON COUNTY COAL COMPANY,

Formerly the W. B. Gunton Coal Co.

Series No. 232. *Overholt Mine—Pittsburg Seam—drift.* This mine is located 6½ miles North of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced at present by furnace is ample to fully comply with the State Mine Laws at the present time, but formerly the ventilation was bad before the furnace was constructed. The top in this mine is fairly good, top coal being maintained throughout the development. Timbering is well looked after. The coal is undercut by electric machines, and hauled to the mouth of drift by mules and horses and from thence to the tippie by means of head rope. The State Mine Laws were disregarded to some extent by the management in some particulars in which the Inspector thought was important, and this matter was taken up very vigorously with the management on the ground, with the result that, at the present time, this mine is fully complying with the State Mine Laws. No gas has ever been found in the mine. With a full force of men and with the present development and equipment, the mine is capable of producing 100 tons daily.

JOHN PRICE, Mine Foreman.

G. S. PRICE, Supt.

LAMBERTS RUN COAL COMPANY.

Series No. 233. *Clauson Mine—Pittsburg Seam—drift.* This mine is located $7\frac{1}{2}$ miles North of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation has been natural, and rather bad throughout the development until very recently, when the Company purchased a 6 ft. Stine fan of the disc type, which they have installed, with electric connection, and on date of last visit (a few days since), it was ready to put in operation with the exceptions of a few of the equipments for which they had a bill and were expecting. On their arrival, this fan will be put in operation and will properly ventilate this development. The headings are going to the dip and the water is handled by pump, with electric connection. In the rooms however, the drainage is good. The top is fairly good throughout the development. Timbering is carefully looked after. The coal is undercut with picks and is hauled to the drift mouth by means of mules and horses, and from thence it is hauled by head rope to the tippie. The power connected to the drum being electricity. The State Mine Laws are well observed. With the present development and equipment and with a full force of men, the mine is capable of producing 200 tons per day.

DORSEY POPLÉ, Supt. and Mine Foreman.

HERO COAL & COKE COMPANY.

Series No. 234. *Hero Mine—Pittsburg Seam—drift.*—This mine is located $10\frac{1}{2}$ miles north of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is natural, and in the right hand section of the mine it is found to be unsanitary to such an extent that the Inspector recommended the immediate installation of a fan of suitable dimensions to properly ventilate the mine. The management purchased a fan and installed it a very short time ago, but upon examination, the Inspector was of the opinion that it was entirely too small and inadequate, and recommendations were made that it be replaced by a fan of suitable size to properly ventilate the development. Roof and timbering throughout this mine, with the exception of a few places, is good. Drainage is good. No gas has ever been found. Dust however, during the winter months was found in dangerous quantities, and recommendations were made to have it properly wet and rigorously insisted upon by the Inspector. The management procured pump and hose and on date of last visit the dust was found in satisfactory condition. The coal is undercut by picks and hauled to the tippie by means of horses and mules. The State Mine Laws are observed other than the matters mentioned above. With a full force of men and with the present development and equipment, this mine is capable of producing 350 tons daily.

ROBERT SHAFFER, Supt. and Mine Foreman.

BLUE RIDGE COAL COMPANY.

Series No. 235. *Thompson Mine—Pittsburg Seam—drift.*—This mine is located 11 miles north of Clarksburg, West Virginia, on the W. Va. S. L.

Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 5 ft. Buffalo fan of the disc type, is good throughout the development. The top or overlying strata, when exposed to the air, is rather bad and requires careful timbering. The top coal however, is maintained throughout the entire development where possible to do so. The drainage is bad by reason of all or nearly all of the workings going to the dip, water being handled by bailing the same in water cars. Coal is undercut by picks and hauled to the drift mouth by mules and horses, where it is dumped in a chute, which slides it down to the R. R. in which it is loaded. The State Mine Laws are fairly well observed, but some insistence has been used by the Inspector as to their observance. No gas is found in this mine. Some dust found in the right hand section of the mine during the winter months, and insistence was used that it be properly cared for, which was done. With a full force of men and with the present equipment and development, this mine is capable of producing 500 tons daily.

ISHAM KEITH, Business Manager.

FRANK LIMER,
Mine Foreman and Supt.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 236. *Pooz Mine—Pittsburg Seam—drift.*—This mine is located 12 miles north of Clarksburg, West Virginia, on a branch off of the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 16 ft. curved blade fan with direct steam connection, is good throughout the development, which has been working during the past year. The top or overlying strata is very bad when all the coal has been removed and it is exposed to the air, and requires very careful watching and timbering. Top coal is maintained in all working places where it is possible to do so. Several places along haulways however need attention at this time as to timbering, which the operating company was engaged at on date of last visit. Drainage is fair throughout the development when normal conditions prevail, but on date of my recent visit, by reason of very heavy rains, the drainage was found rather bad in some sections of the mine. Some gas was formerly found liberating in the advance workings of this mine, but on date of last visit, no gas could be detected. The coal is undercut by picks and also by electric machines of the chain type and hauled to the junction on the inside of the mine by means of horses and mules, and from thence it is lowered down the engine plane by means of endless rope and hand grip to the tippie, where it is dumped into the Railroad cars. The State Mine Laws are well observed at this mine. With a full force of men and with the present development and equipment, this mine is capable of producing 1800 tons daily.

R. E. KERNS and WESLEY MALONE, Mine Foremen.

A. C. ICE, Supt.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 237. *Lucas Mine—Pittsburg Seam—drift.*—This mine is located 12 miles north of Clarksburg, West Virginia, on a branch off of the

W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. Stine fan with electric connection, is fairly good throughout the development. The top or overlying strata is exceedingly bad in sections of this mine when all the coal is removed and it is exposed to the air, and requires very careful attention as to timbering. Small quantities of explosive gas was formerly found liberating in places in advanced sections of this mine, but on date of last visit, no explosive gas was found. Some dust was found in sections of this mine during the cold winter months, but was well taken care of by means of hose. The coal is undercut by electric machines of the chain type, and hauled to the tippie with mules and horses. Drainage is good as a rule in all working sections of this mine. The State Mine Laws are well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1600 tons daily.

JOHN WALTERS, Mine Foreman.

A. C. ICE, Supt.

FAIRMONT COAL COMPANY.

Series No. 238. *Robinson Run Mine—Pittsburg Seam—drift.*—This mine is located 13½ miles north of Clarksburg, West Virginia, on a branch off of the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system, and the ventilation which is produced by a 7 ft. Stine fan with electric connection, is good throughout the development. Explosive gas was found liberating in several sections of this mine, but is well cared for by means of serviceable stoppings and sufficient air to the working places. This mine is also inclined to be dry and dusty during the winter season especially, but the dust is being well cared for by hose and systematic watering. Top coal is being maintained throughout the entire development where it is possible to do so, but by reason of numerous clay veins, the top is bad in places. Timbering is being carefully looked after. The coal is undercut by electric machines of the chain type and is hauled to the drift mouth at the foot of engine plane by means of electric motor. From thence it is conveyed to the tippie by means of mechanical chain hoist. The State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 450 tons daily.

ADAM GROSS, Mine Foreman.

E. P. GOEDECKE, Supt.

ROSE BUD COAL COMPANY, changed to ROSE BUD FUEL COMPANY.

Series No. 239. *Rose Bud Mine—Pittsburg Seam—drift incline.*—This mine is located 14 miles north-west of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, formerly produced by furnace, was only fair throughout the development, but on date of last visit, the management had purchased fan of the Buffalo Disc type, and was expecting its arrival. They gave the Inspector the assurance that they would immediately install the same as soon as received. Drainage is fair throughout the development. The top or overlying strata is very

bad when all the coal is removed and when exposed to the air, requires careful timbering, which is fairly well looked after. No gas has been found during the past year. The coal is undercut by electric machine and hauled to the head of the plane by horses and mules and thence it is lowered to the tippie by traction plane where it is dumped into the cars. The State Mine Laws are fairly well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 400 tons daily.

TONY STARR, Mine Foreman.

J. F. STRAIGHT, Supt.

MONROE COLLIERY COMPANY.

Series No. 240. *Sylvester Mine—Pittsburg Seam—drift incline.*—This mine is located about 14 miles northwest of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system. The ventilation which is produced by furnace, is only fair throughout the development. Top coal is maintained throughout the entire development, and timbering is well looked after. No gas has been found in the past year. Some sections of this mine is inclined to be dry and dusty and insistence was used that it be systematically and thoroughly watered. Drainage is good in the larger portion of the mine. The coal is undercut by compressed air machines of the puncher type and hauled to the top of the plane by mules and horses and lowered by traction to the tippie where it is dumped into the car. The State Mine Laws were being complied with in all the important features, on date of last visit. The Superintendent's attention was called to the fact that his records were not on the form prescribed by law. He agreed to fully comply at once. With a full force of men and with the present development and equipment, this mine is capable of producing 450 tons daily.

WILLIAM F. WHITE, Mine Foreman.

B. H. MONROE, Supt.

NATIONAL COAL COMPANY.

Series No. 241. *Dola Mine—Pittsburg Seam—drift.*—This mine is located 16 miles northwest of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by furnace has always been found ample to fully comply with the law. No gas is found. Drainage is only fair, but the working places are well drained. Top coal is maintained throughout the development where possible to do so as the overlying strata is very bad and requires great care as to timbering in places where the top coal is broken. The coal is undercut by picks and hauled to the tippie by mules and horses. The State Mine Laws are fairly well observed. With the present development and equipment, the mine is capable of producing 100 tons daily.

CREED MURPHY, Supt.

GEORGE ADAMS, Mine Foreman.

FAYETTE COAL COMPANY.

Series No. 242. *Fayette Mine—Pittsburg Seam—drift incline.*—This

mine is located 16 miles northwest of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a furnace, is fairly good throughout the development. Top coal is maintained throughout the entire development, except where clay veins were encountered and it was impossible to do so. In these places it requires careful timbering, which is being well looked after. No gas is found. Some dust found in the winter season and recommendations were made that it be systematically watered. The coal is undercut by picks and hauled to the top of the plane by mules and horses and lowered to the tippie by traction, where it is dumped into the R. R. car. The management of this mine is considering the installation of compressed air for undercutting coal. The State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 400 tons daily.

J. W. JOHNSON, Mine Foreman.

B. T. GREAVE, Supt.

SHORT LINE COAL COMPANY.

Series No. 243. *Girard Mine No. 2—Pittsburg Seam—drift.*—This mine is located 16½ miles northwest of Clarksburg, W. Va., on the S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 10 ft. curved blade fan, driven by steam engine with belt connection, is fairly good throughout the development. Drainage is good in all the working places with the exception of some dip entries. Small quantities of explosive gas liberates in some of the advanced workings, but is being taken care of with serviceable stoppings and ample ventilation. Some dust is found in the winter season in sections of the mine. Recommendations were made and complied with in regard to this matter. Top coal is maintained throughout the entire developments, as the overlying strata is fire clay and very bad when exposed to the air. The coal is undercut by picks and hauled to the junction on the inside by mules and horses and from there it is conveyed to the tippie by means of head rope. The State Mine Laws are well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 600 tons daily.

E. G. VINCENT, Mine Foreman.

P. B. ROBINSON, Supt.

FAIRMONT & BALTIMORE COAL & COKE COMPANY.

Series No. 244. *Fairmore Mine—Pittsburg Seam—drift.* Engine plane. This mine is located two miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced by two furnaces and one fan and is only fairly good throughout the development. The fan is 12 ft. curved blade and ventilates but a small portion of the present working section of the mine. The roof is very bad where the top coal is removed and in some sections of the old works, it has fallen out very high and requires constant attention. The drainage is only fair in some sections and in other sections in the old works, it is

very bad, while the newer development is good in all the working places. No gas has been found during the past year. The coal is undercut by pick and hauled to the outside in the newer development and taken from thence to the top of the engine plane by means of steam locomotive, while in the older development it is hauled to the junction on the inside and from thence to the tippie by means of head and tail rope. The State Mine Laws are observed in all the important matters. With the present development and equipment and with a full force of men, this mine is capable of producing 500 tons daily.

THOMAS WESTMORELAND, Mine Foreman.

A. L. WHITE, Superintendent.

MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 245. *Goff Mine—Pittsburg Seam—drift incline.*—This mine is located $3\frac{1}{2}$ miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is at the present time produced by the Waldo No. 1 fan, and intersection being cut underground between the two mines, and is fairly good throughout the development. Top coal is maintained throughout the entire development and for this reason the roof is good. The coal was undercut formerly by pick, but in December of last year, an inspection was made in company with the Superintendent, Mr. Wilburn, and a large portion of this mine was found to be dry and dusty, so much, that it was the judgment of the Inspector, that it was absolutely necessary to systematically water the same. The air pipes from Waldo No. 1 Mine were run through the intersection between the two mines for the purpose of throwing water through these pipes to wet the dry section. When this was accomplished, the Superintendent decided that as he had two or three compressed air machines of the puncher type idle at Waldo, that he would transfer these machines to this mine for the purpose of cutting the coal, which he did, and at present a considerable of the output is undercut by compressed air machines. Drainage is good. No gas found. The coal is hauled to the drift mouth by mules and horses and lowered to the tippie by traction plane, where it is dumped into the R. R. car. With the present development and equipment and with a full force of men, this mine is capable of producing 500 tons daily.

O. J. FOWLER, Mine Foreman.

W. R. WILBURN, Supt.

MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 246. *Waldo Mine No. 1—Pittsburg Seam—Drift Incline.*—This mine is located 4 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 16 ft. curved blade fan with direct steam connection, has always been fairly good throughout the development, but by reason of Goff mine being connected, it was found necessary for the Inspector to grant special permit to the Company to exceed sixty men on one split as prescribed by

law, as sanitary conditions were fairly good. The top coal is maintained throughout the entire development where it is possible to do so and timbering is exceedingly good in all the room work and fairly good along the haulways. No gas has been found during the past year at this mine. Drainage is fairly good in the present development, formerly rather bad (on 1st Left). The coal is undercut by compressed air machines of the puncher type and hauled to the drift mouth by means of horses and mules and lowered incline to tippie by Wagner-Palmros system. All dry and dusty sections are well cared for by means of hose, water being forced through the air pipes for this purpose. The State Mine Laws are being well observed. With the present equipment and development and with a full force of men, this mine is capable of producing 1000 tons daily.

A. G. COBURN, Mine Foreman.

W. R. WILBURN, Supt.

SOUTHWESTERN COAL COMPANY.

Formerly the Washington Fuel Company.

Series No. 247. *Miller Mine No. 1—Pittsburg Seam—drift.*—This mine is located 4 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, is fairly good throughout the development. The top or overlying strata where it is possible to do so and where it is broken, timbering is well looked after. Drainage was rather bad on date of last visit but the operating company was endeavoring to cut the straight heading to the outside on the opposite of the hill from the opening. When this is done it will drain the entire development. No gas found. The coal is undercut with picks, hauled to the drift mouth by mules and lowered to the bottom of the hill by traction plane where it is picked up by steam locomotive and hauled to the tippie. The State Mine Laws are being observed at the present time. With a full force of men and with the present equipment and development, this mine is capable of producing from 300 to 400 tons daily.

D. E. BROWN, Mine Foreman.

L. B. STEVENS, Supt.

Series No. 248. *Miller Mine No. 2—Pittsburg Seam—drift.*—This mine is located $4\frac{1}{2}$ miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced naturally. Drainage on date of last visit was bad on account of falls of top in ditches, etc. This mine however, had not been in operation for some time prior to this visit and a force of men were engaged on that date in cleaning up the falls and preparing to put this mine in operation. The top is very bad when the top coal is removed, but it is being maintained where possible to do so. The development at the present time is very small and complies with the State Mine Laws. No gas has ever been discovered in this mine.

The coal is undercut with picks and hauled to the drift mouth by mules and lowered to the foot of the hill by traction plane and hauled in conjunction with the output of No. 1 Mine by the same steam locomotive to the tippie, where it is dumped into the car. With a full force of men and with the present development and equipment, this mine is capable of producing 100 tons daily.

D. E. BROWN, Mine Foreman.

L. B. STEVENS, Supt.

CLARKSBURG FUEL COMPANY.

Series No. 249. *O'Neil Mines, Nos. 1, 2, 3, and 4—Pittsburg Seam—drifts.* These mines are located about 5 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. They are opened up on the double entry system and the ventilation, which is produced by two 10 ft. curved blade fans with direct steam connection, has always been found ample to comply with the State Mine Laws. These mines are connected underground and the output of all are hauled to the tippie by means of mules and horses via No. 4 drift. The coal is undercut by compressed air machines of the puncher type. The roof is extremely bad where exposed to the air. Top coal is maintained throughout the entire development where possible to do so, and in places where top coal is removed, it requires immediate and careful timbering. Drainage in some sections of these mines is rather bad by reason of local conditions, the water being handled by pumps, but the operating company has been planning an opening to the outside on the opposite side of the hill from the opening, through which they think they will be able to ditch the water. There is some diversity of opinion about this matter however, and they have not fully decided as to what they will do. Very small quantities of explosive gas was found liberating in some of the working places on date of one of my former visits, but was being well taken care of by sufficient air to working places. The State Mine Laws are being fully observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1500 tons daily.

GEORGE SKINNER, Mine Foreman.

J. R. ELSESS, Supt.

THE MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 250. *Randolph Mine—Pittsburg Seam—drift.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the triple entry system, and the ventilation which is produced by 15 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Laws. The full efficiency of this fan however, is not obtained, by reason of improper construction of the fan house. This development is fast approaching that stage where the full efficiency will be required. This matter was talked over with Supt. Wilburn, who is a thorough, practical man, and plans were agreed on with him to remedy this matter. No gas found during past year, but sections of this mine were inclined to be dry and dusty and recommendations were made to this company in regard to this dust, and Mr. Milburn installed a

thorough system of pipes and hose and carefully looked after the matter, for which I desire to congratulate him. The overlying strata is very bad when exposed to the air, but top coal is being maintained and timbering is carefully looked after. The coal is undercut by electric machines of the chain cutter type and hauled to the tippie by electric motors. The water is handled exclusively by pumps, a portion of which is used on the inside in wetting the dust. The State Mine Laws are well observed. With full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

C. J. ADAMS, Mine Foreman.

W. R. WILBURN, Supt.

THE MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 251. *New Chieftain Mine--Pittsburg Seam--drift.* — This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 15 ft. curved blade fan with direct steam connection, has always been found ample to ventilate the mine in such a manner as to fully comply with the State Mine Laws. The top or overlying strata is very bad when all the coal is removed, requiring the most careful attention as to timbering. This mine however, has not been in operation to any extent during the past year, for reasons unknown to the Inspector. No gas has ever been found. The water is handled exclusively by pumps, and on date of last visit, large bodies of standing water was found on the inside, which prevented a thorough inspection of the mine, but as the mine was not in operation and the operating company did not anticipate putting it in operation soon, no recommendations were made concerning this water. The coal is undercut by electric machines and is hauled to the tippie by means of electric motor. This is a twin tippie, which spans the ravine, and separates this mine from Randolph, belonging to the same company, and the output of both mines are dumped over the same tippie, when they are both operating. The State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily.

C. J. ADAMS, Mine Foreman.

W. R. WILBURN, Supt.

FAIRMONT COAL COMPANY.

Series No. 252. *Reynoldsville Mine--Pittsburg Seam--drift.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 10 ft. curved blade fan with direct steam connection, was always found ample to comply with the State Mine Laws. The top or overlying strata is exceedingly bad, requiring the most careful attention as to timbering, and as the development was very old, it was a matter of very great expense to the operating company to keep the haulways in a satisfactory condition as to general safety, and for this reason, I presume, this mine has been recently abandoned. The drainage was also very bad. No gas found in this mine. The coal is undercut by picks and hauled to the drift mouth by means of mules and horses and hoisted to the tippie by head rope

where it is dumped into the R. R. car. State mine Laws were observed. By reason of the abandonment of the mine, no estimate will be given on the output.

R. H. POLLICK and M. C. GANDY, Mine Foremen.

J. R. ELSEES, Supt.

O'GARA COAL MINING COMPANY.

Series No. 253.—*O'Gara Mine—Pittsburg Seam—slope.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a Charleston, W. Va., fan, with steam and belt connection, is fairly good throughout the development. Some gas was found liberating in the advanced working faces, but accumulations of the same were prevented by fairly serviceable stoppings and sufficient air. Some dust was found on the 3rd Right, but was being well taken care of on date of visit. The operating Company was cautioned as to this dust and recommendations made. The overlying strata is very bad and falls very high in places where the top coal is removed and timbering has been neglected. Timbering however, is carefully looked after along main haulways and top coal is being maintained where possible to do so. The water is handled exclusively by pumps, and by reason of inadequacy of these pumps, at times the water accumulates in places to such a degree that it interferes with the successful operation of the mine. The coal is undercut by compressed air machines of the puncher type and hauled to the foot of the slope by horses and mules and from there it is hoisted up by head rope to the tittle, where it is dumped into the cars. State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily, under favorable conditions.

WM. F. WHITE, Supt.

R. H. POLLICK, Mine Foreman.

DOUGLASS-RAUCH COAL COMPANY, changed to PENN-WEST VIRGINIA COAL COMPANY, changed to W. B. GUNTON COAL COMPANY.

Series No. 254. *Phoenix Mine—Pittsburg Seam—slope.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 12 ft. Charleston fan of the disc type, was always found ample to comply with the State Mine Laws. Some gas was found liberating in the advanced working places and some dust found in the rooms, the gas being fairly well taken care of by means of sufficient air on dates of visit. Recommendations were made in regard to the dust, and the company then operating agreed to comply with these recommendations as soon as possible, but in a few days thereafter, this company failed. The company then operating was the Penn-West Virginia Coal Company. This mine has very recently been taken over by the W. B. Gunton Coal Company, since which time, no visit has been made to this mine by the Inspector. The coal is undercut by compressed air machines of the puncher type, and hauled to the foot of the slope by mules and horses and from thence up the slope

to the tippie by head rope, where it is dumped in the car. Mine Laws were not fully complied with on dates of visits during the past year, and it was found necessary for the Inspector to remove the men from the mine in excess of twenty, on account of the conditions of the second opening, which was found with standing water and other debris, and in such condition that the Inspector deemed himself justifiable in removing the men as above stated, and recommending that the second opening be put in condition to fully comply with the law. The top is of the same nature as that of O'Gara mine, this mine being adjacent thereto, requiring the most careful attention as to the timbering. With a full force of men and with the present development and equipment, this mine is capable of producing 400 tons daily.

W. B. GUNTON, G. M.

M. MANNIX, Mine Foreman.

CLARKSBURG FUEL COMPANY.

Series No. 255. *Lydia Mine—Pittsburg Seam—slope.*—This mine is located 7 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. Has not been in operation during the past year and no indication of resumption soon.

J. O. BROOKS, Supt. and Assistant to the General Supt.

PITCAIRN COAL COMPANY OF WEST VIRGINIA.

Series No. 256.—*Pitcairn Mine—Pittsburg Seam—drift.*—This mine is located one mile south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 15 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Laws. However, full efficiency of this fan is not obtained by reason of improper construction of the fan house. The mine development is fast reaching the point where it will be absolutely necessary to obtain full efficiency, and recommendation have been made as to how these changes and alterations are to be made. The top or overlying strata is only fair when all the coal is removed and requires careful timbering. In the larger part of the mine however, top coal is maintained, which prevents the slate from being exposed to the air and makes conditions much better as to roof. Timbering is carefully looked after and this mine has been greatly improved during the past year as to its physical condition on the inside in many ways. The coal is undercut by electric machines of the chain type and hauled to the drift mouth by means of electric motors from thence to the tippie by steam locomotives. On date of the last visit, explosive gas was found to be liberating in small quantities in several sections of this mine and recommendations were made as to the careful attention to be given to prevent accumulations. Sufficient air was being conducted to the working places on dates of visit to prevent accumulations. Drainage is good throughout the development with a few exceptions. State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

J. A. JENKINS, Supt.

W. J. KEEFE, W. C. MINEAR and WILLIAM GANTZ, Mine Foremen.

CLARKSBURG FUEL COMPANY.

Series No. 257. *Dirie Mine—Pittsburg Seam—drift incline.* — This mine is located about one mile south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced by natural current, and has always been found ample to fully comply with the State Mine Law, and the operating company is at present engaged in robbing the pillars preparatory to permanent abandonment. The drainage by reason of local conditions is rather bad. No gas has ever been found in this mine. The roof is very bad when all the coal is removed and the overlying strata is exposed to the air. Top coal however, is maintained where possible to do so, and timbering is well looked after and State Mine Laws are complied with. The coal is undercut by pick and hauled to the top of the plane by means of mules where it is lowered to the tippie by traction. With a full force of men and with the present development and equipment, this mine is capable of producing 40 tons daily.
G. W. ELIASON, Supt and Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 258. *Lynch Mine—Pittsburg Seam—drift incline.* — This mine is located six miles south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 12 ft. curved blade fan with electric connection, is good throughout the present working section. By reason of local conditions, the drainage is bad. Roof is also bad when exposed to air and requires careful timbering. No gas found. State Mine Laws are well observed. The coal is undercut by electric machines and with pick and hauled to the top of plane with horses and mules and lowered to the tippie by traction. With a full force of men and with the present development and equipment, this mine is capable of producing 200 tons daily.
LOWELL CHILDS, Supt.
FRANK McNEMAR, LLOYD PUGH, OVERT CORK and BROOKS PATTON, Mine Foremen.

CLARKSBURG FUEL COMPANY.

Series No. 259. *Two Lick Mine—Pittsburg Seam—drift.*—This mine is located about 6 miles south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 7 ft. Stine fan with electric connection has always been found sufficient to comply with the State Mine Laws. The top in some sections of this mine is exceedingly bad and requires very careful attention as to timbering, while in other sections of the mine the top is exceedingly good. Small quantities of explosive gas was found liberating in some of the advanced workings, but was being well taken care of by serviceable stoppings and sufficient air on dates of visit. The coal is undercut by electric machines and hauled to the tippie by electric motors. The State Mine Laws are well observed. Drainage in some sections of the mine is very bad and

in other sections it is exceedingly good. With a full force of men and with the present development and equipment, this mine is capable of producing from 1000 to 1200 tons daily.

LOWELL CHILDS, Supt.

JOHN CONDRY, E. P. McOLVIN, SAM LEWIS, Mine Foremen.

MARSHALL COAL COMPANY.

Series No. 260. *Marshall Mine—Pittsburg Seam—Drift Incline.*—This mine is located seven miles South of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 12 ft. Crawford & McCrimmon fan with direct steam connection, is only fair, reason of inadequacy of fan and also improper construction of the fan house. Recommendations were made on date of last visit as to the remodeling of this fan house and also as to the bettering of the distribution of the air on the inside. These recommendations have only partly been complied with, but however, the mine has not been in operation to any extent since date of last visit. Drainage is fairly good in all the working places. And also the roof is above the average of the Pittsburg Seam in this region. No gas has ever been found in this mine. The State Mine Laws, other than the ventilation spoken of above, are complied with, and had the mine been operating, insistence would have been used by the Inspector that his recommendations be complied with promptly. I have been informed that the operating company is installing a mechanical haulage on the inside, but at this time I am not able to state just what kind of haulage it is. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

N. H. HACKER, Supt. and Mine Foreman.

COOK & HART COAL COMPANY.

Series No. 261. *Cook Mine—Pittsburg Seam—drift.*—This mine is located about seven miles south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation, which is produced by natural current, by reason of local conditions being favorable to natural ventilation, and for the additional reason that explosives are not used in the mine for the purposes of shooting the coal, is good. Drainage is bad and needed immediate attention on date of last visit as to ditching, etc. Timbering is well looked after and the top in some sections of the mine is very bad, while in other sections it is rather good. The coal is undercut and taken down without explosives, by the use of picks exclusively, and hauled to the drift mouth at the top of plane by mules and horses where it is lowered to the tippie by traction plane. State Mine Laws are observed in all important matters. With a full force of men and with the present development and equipment, this mine is capable of producing 300 tons daily.

JAMES F. COOK, Supt.

PATRICK COOK, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 262. *West Fork Mine—Pittsburg Seam—drift incline.*—This mine is located about seven miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by furnace, is ample to fully comply with the State Mine Laws. The roof or overlying strata is very bad when exposed to the air, requiring very careful timbering along the haulways. The top coal is being maintained where possible to do so in all the new development. Drainage is rather bad in some sections on account of local conditions. No gas found. State Mine Laws are being observed. The coal is undercut by picks and hauled to the drift mouth by mules and horses and lowered to the tippie by traction. With the present development and equipment and with a full force of men, this mine is capable of producing 150 tons daily.

LOWELL CHILDS, Supt. JOE MATHENEY, Mine Foreman.

HUTCHINSON FUEL & SUPPLY COMPANY.

Series No. 263. *Byron Mine No. 1—Pittsburg Seam—drift.*—This mine is located about 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. Stine fan, was always found ample to fully comply with the State Mine Laws. Small quantities of explosive gas was formerly found liberating in some of the advanced working places, but was being well cared for on dates of visit by serviceable stoppings and sufficient air. This mine however, has not been in operation to any extent during the past year and I am informed by officials of the operating Company, that it will be connected underground with that of No. 2 Mine and the output will be hauled via No. 2 drift. The roof is rather bad and requires very careful attention as to timbering. Drainage is also rather bad and for this reason the intersection of the two mines mentioned above is meditated by the operating Company. State Mine Laws are observed. With the present development and equipment and with a full force of men, providing the interior was put in condition for operation, this mine is capable of producing 400 tons daily.

W. G. H. CRAWFORD, Supt. W. B. MALONE, Mine Foreman.

Series No. 264. *Byron Mine No. 2—Pittsburg Seam—drift.* This mine is located about 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and the ventilation, which is produced by a 12 ft. Crawford & McCrimmon fan with direct steam connection, has always been found sufficient to comply with the State Mine Laws. The full efficiency of this fan however is not obtained. Suggestions were offered to the operating Company as to the manner of remodeling the fan house for purpose of obtaining better results, which they agreed to do at their earliest oppor-

tunity. No gas has ever been found in this mine. The roof requires careful attention as to timbering. Drainage is fairly good, the larger portions of water being handled by pumps. The coal is undercut by both types of machines—air and electric, and is hauled to the tippie by means of electric motor, this tippie being a twin tippie, which spans the ravine that separates it from No. 1 Mine, the output of both mines being dumped over the same tippie when in operation. State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

W. G. H. CRAWFORD, Supt.

W. B. MALONE, Mine Foreman.

CLARKSBURG FUEL COMPANY.

Series No. 265. *Interstate Mine No. 1—Pittsburg Seam—drift incline.* This mine is located 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and has not been in operation during the past year, but the operating Company is at the present time, March 3, 1909, engaged with a force of men in cleaning, remodelling and rebuilding preparatory to starting this operation.

L. C. KEENER, Supt.

U. B. BLAKESMITH, Mine Foreman.

Series No. 265a. *Interstate Mine No. 3—Pittsburg Seam—drift.* This mine is located 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation, which is produced by a 12 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Laws. The top or overlying strata is of a slippery, potty nature in some sections of the mine, and in other sections of the mine it is slate with horizontal cracks and for this reason, the top is dangerous when all the coal is removed, and requires very careful attention as to timbering. The drainage is fairly good in the present working section of the mine. The right hand section of the mine however, which has not been in operation during the past year, has considerable standing water, that is infiltrated with sulphuric acid to such an extent that it will be necessary for the operating Company to install wooden pumps for the purpose of handling the water from this section of the mine when put in operation. No gas is found. The coal is undercut by pick and by machines of the puncher type and hauled to the tippie by means of mules and horses. The State Mine Laws are observed. With the present development and equipment and with a full force of men, this mine is capable of producing 1500 tons daily.

L. C. KEENER, Supt.

JESSE THOMAS, Mine Foreman.

JANE LEW COAL & COKE COMPANY, changed recently to the CLARKSBURG GAS COAL & COKE COMPANY.

Series No. 267. *Fulmer No. 1 Mine—Pittsburg Seam—drift.* This mine is located 16 miles South of Clarksburg, W. Va., on the W. Va. & P. Di-

vision of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, has always been found ample to comply with the State Laws. The top or overlying strata is of a slippery, potty nature and draw slate in character, and requires very careful attention as to timbering when all the coal is removed, and by reason of the numerous clay veins it is almost impossible to maintain top coal. The former operating Company however, endeavored to do so where possible. The drainage is only fair by reason of local conditions, such as local dips, etc. No gas was found liberating during the past year. The Jane Lew Coal & Coke Company went into the hands of a Receiver during the past year and has just recently changed to the Clarksburg Gas Coal & Coke Company, as stated in the heading above. This Company is not yet in operation, but I understand that they will at once put the mine in condition to operate, as it has been closed down for some time and no one on the ground except the custodian of the property, Mr. M. Mannix, who was former Mine Foreman in charge when in operation. The mine is equipped with electric machines for undercutting, but by reason of the numerous clay veins encountered, the coal was mined exclusively by picks and hauled to the top of the plane by mules and horses and lowered to the tippie by traction. State Mine Laws are observed while operating, and by reason of adverse conditions, such as clay veins, etc., it is impossible to give an approximate daily output.

For the Jane Lew Coal & Coke Company:

HARRY FULMER, Supt.

FRANK LOVE and M. MANNIX,

Mine Foremen.

For Clarksburg Gas Coal & Coke Company:

ERNEST FLETCHER, Supt. and Mine Foreman.

JACKSONVILLE COAL & COKE COMPANY.

Series No. 268. *Sarah B. No. 1 Mine—Pittsburg Seam—drift*—This mine is located 20 miles west of Sago, West Virginia, on the Coal & Coke Railroad. It started development on the single entry system and by reason of encountering very bad fault, was abandoned and has not resumed operation during the past year, up to September, 1908. The company owning this mine at the present time is in the hands of a Receiver and I have no information as to what the intention of the Receiver is after the resumption of physical operation at this mine.

WILLIAM ATKIN, Supt. and Receiver.

NICHOLAS COLE, Mine Foreman.

Series No. 269. *Sarah B. No. 2 Mine—Pittsburg Seam—drift*.—This mine is located 20 miles west of Sago, West Virginia, on the Coal & Coke Railroad. The identical conditions prevail here as described in No. 1 Mine, and has not been in operation during the past year up to September, 1908.

WILLIAM ATKIN, Supt. and Receiver

NICHOLAS COLE, Mine Foreman.

Series No. 270. *Sarah B. No. 3—Pittsburg Seam—drift.*—This mine is located 20 miles west of Sago, West Virginia, on the Coal & Coke Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, has always been found ample to fully comply with the State Mine Laws. The drainage is good in all working sections of this mine and the top or overlying strata on the left hand side off of the Main entry, where the principal development is located, is exceedingly good. No gas has ever been found liberating from this coal. The coal is undercut by means of compressed air machines of the puncher type and is hauled to the drift mouth by mules and horses and from there it is conveyed to the tippie by a steam locomotive. State Mine Laws were observed while the mine was in operation, but it has been in the hands of a Receiver for several months, since which time, very little development has been made. With a full force of men and with the present development, this mine is capable of producing 300 tons daily, and possibly more. WILLIAM ATKIN, Supt. and Receiver.

NICHOLAS COLE, Mine Foreman.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

Series No. 271. *Pence Mine—Redstone Seam—slope.*—This mine is located four miles west of Buckhannon, West Virginia, on the Buckhannon & Weston Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation produced by a 12 ft. fan with direct steam connection. This mine when in operation, liberates small quantities of explosive gas at the working faces. It was also inclined to be dry and dusty, but at the present time it is filled to overflowing with water, as it has not been in operation during the past year, the operating company being in litigation, the nature of which I am not familiar with, and on dates of last visit, no information could be gleaned from anyone as to who the officials were that had charge of the physical management of the mine at that time.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

UPSHUR COUNTY.

RED ROCK FUEL COMPANY, controlled by FAIRMONT COAL CO.

Series No. 272. *Red Rock Mine No. 1—Redstone Seam—drift.*—This mine is located about 3 miles west of Buckhannon, West Virginia, on the Buckhannon & Weston Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. Stine fan with electric connection, has already been found ample to fully comply with the State Mine Laws. The top or overlying strata is of the draw slate nature and by reason of the numerous clay veins encountered, is very bad in that section where they are located. The top by reason of the seam of coal being low, is shot down along the haulways for the purpose of obtaining sufficient height to properly handle the output. State Mine Laws are observed with the exception that the in-

spector deemed it necessary to call their attention to the condition of their haulways in reference to slate, the same being piled along haulways to such an extent that the Inspector deemed it necessary to mark refuge holes with white-wash, as the Law prescribes. Small quantities of explosive gas has been found liberating on some of the former visits, but was being well taken care of by means of sufficient air. The coal is undercut by electric machines of the chain type and is hauled to the tippie by means of electric motor. By reason of adverse local conditions, it is impossible to give an approximate estimate of the output.

ROBERT LANG, Jr., Supt.

J. A. BURKE, Mine Foreman.

Series No. 273. *Red Rock Mine No. 2—Redstone Seam—drift.*—This mine is located about 3 miles west of Buckhannon, West Virginia, on the Buckhannon & Weston Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation is produced by a 7 ft. Stine fan with electric connection. The conditions physically, are identical with that of No. 1 already described. The coal is hauled in the same manner to the tippie, which is a twin tippie, spanning the ravine which separates the two drifts, and is dumped in conjunction with the output of No. 1 Mine.

ROBERT LANG, Jr., Supt.

J. A. BURKE, Mine Foreman.

NEWCOMER COAL COMPANY.

Series No. 274. *Newcomer Mine—Redstone Seam—drift.*—This mine is located 7 miles north-east of Buckhannon, West Virginia, on the Buckhannon & Belington Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced by a furnace. By reason of a combination of circumstances, such as mine being not found in operation, etc., but one thorough inspection of this mine has been made during the past year. Two or three other visits have been made however to this mine. The conditions on the inside on dates of these visits were rather adverse on account of the numerous clay veins, but hopes were entertained by the management and also concurred in by the Inspector, that more favorable conditions would prevail as the development advanced. State Mine Laws are being observed. The coal is undercut by picks and hauled to the tippie by mules, and by reason of adverse conditions mentioned, impossible to estimate the daily output of this mine.

GEORGE CAMPBELL, Supt. and Mine Foreman.

BUCKHANNON RIVER COAL COMPANY.

Series No. 275. *Florence Mine—Masontown Seam—drift.*—This mine is located 3 miles west of Sago, West Virginia, on the Coal & Coke Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, is fairly good throughout the development. The top or overlying strata is exceedingly good, the average thickness of the seam being 70 inches and for this reason it is not necessary to shoot

the top in order to gain height, the coal running very uniform in thickness. No gas found. This mine has been in operation very little during the past year. State Mine Laws were observed in all important matters on date of last visit. Drainage is good. The coal is undercut by picks and hauled to the drift mouth by mules where it is dumped into the R. R. car by means of platform and drop bottom pit cars. With the present development and equipment and with a full force of men, this mine is capable of producing 200 tons daily.

I. W. RECKARD, Supt. and Mine Foreman.

HARRISON COUNTY.

MARION GAS COAL COMPANY.

Series No. 276. *Bingamon Mine. — Pittsburg Seam — drift.* — This mine is located twenty miles north of Clarksburg on the west side of the West Fork River and has not yet reached that stage of development that would classify it as a commercial mine. It is opening up for the present on the double entry system, but the Mining Engineer tells me that he has not yet fully decided just what the plans of development for the interior of the mine will be. It is ventilated at the present time by an open grate. It is the intention of the company to install the latest electrical equipments for hauling and undercutting the coal. The coal will be hauled from the drift mouth to the west side of the river by electric motor, from thence it will be hoisted up a steel viaduct or engine plane which spans the river, to the tippie which is located on the east side of the river on the M. R. Division of the Baltimore & Ohio Railroad. The tippie and all or nearly all of the outside equipment is located in Marion county. The mine openings and all the acreage of coal is located in Harrison county, which belongs to the 2nd Mining District of West Virginia. This mine when fully developed will be of large capacity. Mine was not reported last year and is not yet shipping coal, but will be in the very near future.

THOMAS HORTON, Mine Foreman.

JAMES WAITMAN, Supt.

HAYWOOD COAL MINING COMPANY.

Series No. 277. *Monroe Mine—Pittsburg Seam—drift.*—This mine is located fourteen miles north of Clarksburg, West Virginia, on the M. R. Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, has always been found ample to comply with the State Mine Law. This mine is inclined to be dry and dusty and very rigorous insistence was used on the management by the Inspector that this dust be kept thoroughly and systematically watered, and on dates of last visit, this mine was found in a satisfactory condition as to this matter. Top coal is maintained throughout the development and timbering is carefully looked after. It will be necessary in the near future for the operating company to install fan for proper ventilation. Drainage is reasonably good and State Mine Laws on date of last visit were observed, but some trouble was experienced by the

Inspector to have a full compliance prior to this date. With a full force of men and with the present development and equipment, this mine is capable of producing 250 tons daily.

SEYMOUR McINTIRE, Supt.

R. E. CORNWELL, Mine Foreman.

THIRD DISTRICT.

GENERAL SUMMARY OF THE THIRD MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYES								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborer s.	Coke Workers	Totals	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,200 lbs.)
Barbour --	21	1	278	231	57	179	745	108	24	132	877	735,063	27,203
Monongalia	10	--	239	45	13	71	368	81	90	174	542	235,816	117,254
Preston ----	23	4	672	250	41	231	1,194	113	116	229	1,423	654,333	175,915
Taylor ----	16	--	317	91	20	91	519	101	3	104	623	437,633	5,302
Totals..	70	5	1,506	617	131	472	2,826	406	233	639	3,465	2,062,815	325,674

JOHN F. BRATT.

Inspector, Third District.

OFFICE OF THE THIRD DISTRICT MINE INSPECTOR.

INDEPENDENCE, PRESTON Co., July 5th, 1909.

HON. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

DEAR SIR:—I herewith respectfully submit to you my Annual Report as Inspector of Mines of the Third District, for the year ending June 30th, 1909. This district is composed of Barbour, Taylor, Monongalia and Preston counties: there are seventy-three openings in this district, ten in Monongalia, twenty-three in Preston, sixteen in Taylor, and twenty-one in Barbour. Owing to the depression in business in the last year very few of the mines in this district have been working very steadily, and a number of them have not been in operation at all during the last year.

I am glad to say the conditions of the mines in this district are much better than they were a year ago, as to ventilation, drainage and general safety, especially in the mines that have been working steadily. The Mine Managers and Operators (or a majority of them) show a willingness to adopt any method that will put their mines in a safe condition, and especially as to taking care of the dust which is undoubtedly the most dangerous element we have to contend with in the mines; and I

always insist, that all fine dry dust be removed and kept thoroughly watered.

Several of the larger mines have equipped for their use electric pumps with hose and also Rotary Sprays attached to water cars, so that they are able to keep the dust thoroughly wet. I am very glad that I have no explosions to report in this district, and comparatively few fatal accidents. The fatal accidents investigated were caused through carelessness on the part of the parties themselves, there has been a number of non-fatal accidents, reports of which have all been forwarded to your office. With few exceptions the law has been fully complied with. I found it necessary to have some eight or ten employes arrested for using mixed oil for illuminating purposes. There has been three new operations in this district during the last year, two drift openings in the Upper Freeport seam in Barbour county, and one shaft opening in Lower Kittanning seam in Taylor county.

I still think the present Mining Law if fully complied with is sufficient for the protection of property and the lives and health of the employes, but think the Mining Laws of this state should include Fire Clay mines, there are some Fire Clay mines in this district.

In conclusion I wish to say, with the exceptions of the arrests mentioned above, my relations with the miners and also with the operators and Mine Managers have been of the most pleasant, and wish to thank them all for the kind courtesy shown me.

Very respectfully yours,

JOHN F. BRATT.

CONDITION OF THE MINES IN THE THIRD DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 320 indicates the third district and number 20 mine.

MONONGALIA COUNTY.

GREAT SCOTT COAL & COKE COMPANY.

Series No. 301. *Great Scott Mine.*—This mine is located three and one-half miles north west of Morgantown, and on the west side of the Monongahela River. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and is fair. The main heading has been driven through in the last year a distance of about 3000 feet; this is a very desirable little mine, the coal is of good quality and the natural conditions are good. Owing to the depression in the coal business this mine has not been working very much in the last year. The coal is shipped by river in barges, also by rail being conveyed from the mine across the river by rope in bucket.

This mine was reported last year as Great Scott mine No. 301 of the printed report.

A. G. TAIT, Supt.

GRANT COAL COMPANY.

Series No. 302. *Round Bottom Mine*.—This mine is located on the west side of the Monongahela River, six miles south west of Morgantown. It is a drift opening operating the Pittsburg seam on the double entry system, the ventilation is produced by a Fire Basket and is poor. We recommend that there be a fan installed at once, the roof and timbering is fair, oil used for illuminating purposes is of a fair grade; the drainage is very good. This mine has not been in operation much in this last year and was inspected but once; this mine was formerly known as the Niagara Coal & Coke Company.

This mine was reported last year as Round Bottom mine No. 302 of the printed report.

E. W. FREEMAN, Supt.

FAIRMONT COAL COMPANY.

Series No. 303. *Beechwood Mine*.—This mine is located twelve miles north of Fairmont on the F. M. & P. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and is very good, the rooms and most of the entries are driven out to the crop which makes the circulation of air good. The head coal is left up in some parts of the mine, which makes a good roof. Timbering is very good and the oil is of a fair grade. Blankets and stretchers are kept on hand. Rules in several different languages are posted.

This mine was reported last year as Beechwood Mine No. 303 of the printed report.

HARRY TOOTHMAN, Supt.

WALTER ROWE and C. H. JOHNSON, Mine Foremen.

OPEKISKA COAL & COKE COMPANY.

Series No. 304. *Opekiska Mine*.—This mine is located at Opekiska, ten miles north of Fairmont on the F. M. & P. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and poor. This mine has not been worked much in the last year. I have made several visits to this mine in the last year, but have not found the mine in operation and did not inspect it.

This mine was reported last year as Opekiska Mine No. 304 of the printed report.

W. S. WOODS, Supt.

F. H. LOVE and MR. WILFONG, Mine Foremen.

ELKINS COAL & COKE COMPANY.

Series No. 305. *Sabraton No. 5 Mine*.—This mine is located two and one-half miles from Morgantown near Rock Forge, is a drift opening operating the Pittsburg seam on the double entry system. The coal is hauled from the mine about one mile, by an electric motor to the tippie

on the M. & K. R. R. The ventilation is produced by a fan and on my last visit was fairly good. This mine has not been in extensive operation for some time past. The drainage is only fair and the roof is a soft slate and somewhat dangerous. Timbering is very good. The oil used is of a very fair grade. The second opening meets the requirements of the Law.

This mine was reported last year as Sabraton No. 5 mine. No. 305 of the printed report.

O. T. BARNARD, Supt.

WM. BARNARD, Mine Foreman.

CONNELLSVILLE BASIN COKE COMPANY.

Series No. 306. *Mine Nos. 1, 2 & 3*—This mine is located four miles south of Morgantown, on the M. & K. R. R. It is a drift opening operating the Upper Freeport Seam on the double entry system. The ventilation is produced by two fans, force and exhaust, and is rather poorly distributed in some sections of the mine. The roof is a hard bone coal and is excellent. The mine is somewhat dusty in some sections, but of late the dusty portions have been much better taken care of by removing the dust and keeping it well watered. A fair quality of oil is used. Rules are posted, blankets and stretchers kept on hand. The second opening meets the requirements of the law.

This mine was reported last year as Mine No. 1, No. 306 of the printed report.

G. T. GRAHAM, Supt

J. H. POWELL and W. B. ROBERTS, Mine Foremen.

ELKINS COAL & COKE COMPANY.

Series No. 307. *Richard No. 1 Mine*.—This mine is located four miles south of Morgantown. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation produced by a 20 ft. fan is very good. The roof in this mine is good, being a hard bone coal, and the timbering is good. This mine is very dry except in the dip headings, which have not been working for more than a year; as the company have plenty of territory to last them for some years to come without developing the dip headings. The drainage is good. This mine is rather dusty, but the dust is being well taken care of by hauling it out and keeping it well watered. The Management is making every effort to keep the mine in a safe and good condition. The second opening meets with the requirements of the Law.

This mine was reported last year as Richard No. 1 No. 307 of the printed report.

J. B. HANFORD, Gen. Supt.

O. F. BARNARD, Mine Foreman.

THE LOW COAL COMPANY.

Series No. 307a. *Big Falls Mine*.—This mine is located twelve miles north of Fairmont on the west side of the Monongahela river. It is a drift opening operating the Red Stone seam. This mine had not been

in operation in the last year. When coal was shipped from this mine it was shipped by river in barges.

This was reported last year as Big Falls Mine.

A. B. McDONALD, Supt.

PRESTON COUNTY.

ELKINS COAL & COKE COMPANY.

Series No. 308. *Bretz No. 2 Mine*.—This mine is located at Bretz on the M. & K. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a 16 foot Robinson fan, and is fairly well distributed through the mine. The drainage is good, and the roof is excellent being formed of head coal. The second opening fully complies with the law. Rules are posted, blankets and stretchers kept on hand. This mine has not been in operation for several months owing to the tippie burning down, but the company have erected a fine new steel tippie, and are now ready to resume operation.

This mine was reported last year as Bretz No. 2 Mine, No. 308 of the printed report.

J. B. HANFORD, Gen. Supt.

F. J. WOODSELLS, Mine Foreman.

Series No. 309. *Masontown No. 6 Mine*.—This mine is located at Masontown on the M. & K. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by an 8 foot fan, and is good. The drainage is good; the second opening fully complies with the law. The oil used for illuminating purposes is very fair. Shooting on the solid is strictly prohibited. The conditions of this mine for general safety are as near perfect as any mine in the Third District.

This mine was reported last year as Masontown No. 6 Mine, No. 309 of the printed report.

J. B. HANFORD, Gen. Supt.

JOSEPH HANFORD, Mine Foreman.

PRESTON COUNTY COKE COMPANY.

Series No. 310. *Cascade Mine*.—This mine is located at Cascade on the M. & K. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. There has been a 12 foot fan installed at this mine in the last year, which makes the ventilation good. The drainage, roof and timbering are good. The oil used is of a very fair grade, and the second opening fully complies with the law. On my last visit to this mine there were 100 coke ovens in blast, 48 of which have been built in the last year, with a number of others in course of construction. The entire output of the mine is converted into coke.

This mine was reported last year as Cascade Mine, No. 310 of the printed report.

EVERHART BIERER, Supt.

J. B. HAILE and D. B. DAVIS, Mine Foremen.

ELKINS COAL & COKE COMPANY.

Series No. 311. *Kingwood No. 4 Plant.*—This mine is located one mile north of Kingwood, on the M. & K. R. R. There are two openings at this plant Nos. 1 & 2, operating the Upper Freeport seam on the double entry system. No. 1, is ventilated by a large 16 foot fan, and the ventilation is good throughout the mine. The drainage is good, and the roof is a hard sand rock and is good. No. 2 is ventilated by a 4 foot Clifford fan, and is good throughout the mine. The roof is a hard sand rock; the drainage is good, and the oil used is of a fair quality. The second opening at this plant fully complies with the Law. This company seems to use every effort to fully comply with the law.

This plant was reported last year as Kingwood No. 4 Plant, No. 311 of the printed report.

J. B. HANFORD, General Superintendent.

R. R. BEAVERAGE, Mine Foreman.

IRONA COAL COMPANY.

Series No. 312. *Irona No. 1 Mine.*—This mine is located two miles west of Kingwood on the West Virginia N. R. R. It is a drift opening operating the Upper Freeport seam, on the double entry system. The ventilation is produced by a ten foot Stine fan, and is only fair. The drainage is good; the roof is good, it being a hard bone coal. The oil used is of a fair quality. The coal is hauled to the tippie by rope haulage. Blankets and stretchers are kept on hand, and rules posted.

This mine was reported last year as Irona No. 1 Mine, No. 312 of the printed report.

T. R. SPENCER, Supt.

J. F. WATKINS, Mine Foreman.

Series No. 313. *Irona No. 2 Mine.*—This mine is located two miles west of Kingwood on the West Virginia N. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by two furnaces, one on the north side and one on the south and is fairly good. The drainage is good. The roof is good, being formed of a hard bone coal in most places. The second opening complies with the law. The coal is hauled out of the mine to the tippie by rope haulage. Blankets and stretchers are kept on hand, and rules posted.

This mine was reported last year as Irona No. 2 Mine, No. 313 of the printed report.

T. R. SPENCER, Supt.

J. F. WATKINS, Mine Foreman.

KINGWOOD COAL COMPANY.

Series No. 315. *Howesville Mine.*—This mine is located on the West Virginia N. R. R. five miles west of Kingwood. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a furnace, and has not always been satisfactory. The

roof is good being a hard sand rock. The drainage and general safety is very good. The powder law is fully observed, and the oil used is of a fair quality. Rules are posted, blankets and stretchers are kept on hand. The coal is undercut by compressed air with the puncher machine, and hauled by mules to mouth of drift; thence by hoisting up an incline two hundred feet to tippie.

This mine was reported last year as Howesville Mine No. 315 of the printed report.

W. B. EDWARDS, Supt.

CHARLES MARTIN, Mine Foreman.

ATLANTIC COAL & COKE COMPANY.

Series No. 316. *Atlantic Mine*.—This mine is located three miles north east of Tunnelton on Pringal's Run. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a sixteen foot fan, and the drainage is fair. The roof is good being of a hard sand rock. The mine has not been in operation in the past year, and I have not inspected same

This mine was reported last year as Atlantic Mine, No. 316 of the printed report.

W. WILLIAMS, Supt.

OAKLAND COAL & COKE COMPANY.

Series No. 317. *Corinth Mine*.—This mine is located at Corinth on the B. & O. R. R., and on Snowy Creek. It is a drift opening operating the Upper Freeport seam partly on the double entry system. There are two openings at this plant, connected under ground. The ventilation is produced by a twelve foot fan, and has never been very satisfactory. Shooting on the solid is practiced to a great extent. The coal from No. 2 opening is lowered down incline some six hundred feet to tippie. I have not inspected this mine for some time, it not being in operation.

This mine was reported as Corinth Mine, No. 317 of the printed report.

S. H. JORDON, Supt.

MERCHANTS COAL COMPANY.

Series No. 318. *Tunnelton No. 1 Mine*.—This mine is located at Tunnelton on the B. & O. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system.

This mine has not been in operation during the past year. This mine was reported last year as Tunnelton Mine No. 318 of the printed report.

T. BARBER, Supt.

Series Nos. 319, 320. *Tunnelton Nos. 2 & 3 Mines*.—These mines are located at Tunnelton on the B. & O. R. R. They are drift openings operating the Upper Freeport seam on the double entry system. The ventilation is produced by a sixteen foot fan, and the ventilation from this fan has only been fair of late; as the headings have been obstructed by the falls

on the air passages. The roof is generally sand rock except in some parts of the mine where it is a soft slate and somewhat dangerous, but it is very well timbered and looked after. The drainage is only fair. The coal of No. 3 comes out at No. 2 opening. This mine was not in operation during the past year on account of a strike at that place. This property has changed ownership in the last few months, the present operators are making considerable improvements in the mines as to ventilation and drainage in the haulways and traveling ways. The second opening meets the requirements of the law. This mine was reported last year as Tunnelton Nos. 2 & 3 Mines, No. 319 of the printed report.

T. BARBER, Supt.

J. W. WATKINS, Mine Foreman.

GORMAN COAL & COKE COMPANY.

Series No. 321. *West End No. 1 Mine.*—This mine is located on the B. & O. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. This mine has not been in operation but very little in the past year. Ventilation is natural, but rather poor. It not being in operation I have not inspected it in the last year.

This mine was reported last year as West End No. 1 mine, No. 321 of the printed report.

T. M. MURPHY, Supt.

B. F. WILLIAMS, Mine Foreman.

Series No. 322. *Gorman No. 2 Mine.*—This mine is located on the B. & O. R. R. near Austen. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a ten foot fan, and is very well distributed throughout the mine. The roof is good being a hard sand rock. Drainage first class, and oil of a fair quality. The second opening meets the requirements of the law. The coal is hauled by mules to the mouth of the opening, and thence lowered by incline to the tippie, a distance of five hundred feet.

This mine was reported last year as No. 2 mine, No. 322 of the printed report.

T. M. MURPHY, Supt.

Series No. 322a. *Gorman No. 4 Mine.* This mine is located near the B. & O. R. R. near Austen, and is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is natural and rather poor. The roof is a hard sand rock, and the drainage is very good. The oil is of a fair quality. This mine is almost worked out, and will be abandoned in the near future. The printed report did not report this mine last year.

T. M. MURPHY, Supt.

AUSTEN COAL & COKE COMPANY.

Series No. 323. *Austen No. 1 Mine.*—This mine is located on the B. & O. R. R., and on Raccoon Creek. It is a drift opening operating the Freeport seam on the double entry system. The ventilation is produced

by a ten foot fan, and is only fair; the air course now being driven and nearly completed will make the ventilation good. The drainage is fair, and the roof is a soft slate, and rather dangerous. The timbering is very well looked after, and the coal is undercut by an electric chain machine, and is hauled to the tippie by electric motor. Blankets and stretchers are kept on hand. Rules posted, and oil of fair quality.

This mine was reported as Austen No. 1 mine, No. 323 of the printed report.

F. W. HORCHLER, Supt.

A. R. MURPHY, Mine Foreman.

Series No. 324. *Austen No. 2 Mine.*—This mine is located on Raccoon Creek, four miles east of Newburg. It is the drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by an eight foot fan, and has always been very good and very well distributed through the mine. The drainage is first-class, and the roof is principally a hard sand rock; but in some sections the roof is a soft slate and very dangerous, but is well looked after and timbered. The powder law is strictly observed, and the oil used is of a fair quality. The second opening meets all the requirements of the Law. Blankets and stretchers are kept on hand, and rules posted.

This mine was reported as Austen No. 2 Mine, No. 324 of the printed report.

F. W. HORCHLER, Supt.

G. R. COOK, Mine Foreman.

HITE COAL & COKE COMPANY.

Series No. 325. *Dixie Mine.*—This mine is located on the B. & O. R. R. and on Raccoon Creek. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a furnace, and has always been very good. Drainage and general safety is very good.

This mine has been in operation but very little in this year, and was not inspected more than twice in this year on that account.

This mine was reported last year as Dixie Mine No. 325 of the printed report.

R. M. HITE, Supt.

R. M. HITE, Supt.

ALFORD FORTNEY, Mine Foreman.

ORR COAL & COKE COMPANY.

Series No. 326. *Vulcan Mine.*—This mine is located four miles east of Newburg on the B. & O. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a twelve foot fan and is fairly good. Drainage is good, and the roof in some parts is sand rock and is good, and in some places is a treacherous slate; but is well timbered. The oil used is of fair quality, and the coal is undercut by compressed air machines of the puncher type. The coal is hauled on the inside by ponies and mules to a side track, and hauled from side track to tippie by rope haulage. The second opening meets the requirements of the law and the law is of a fair quality.

This mine was reported last year as Vulcan Mine, No. 326 of the printed report.

J. M. ORR, Supt.

F. E. DAWSON, Mine Foreman.

HAMILTON COAL & COKE COMPANY.

Series No. 327. *Newburg Shaft*.—This mine is located at Newburg on the B. & O. R. R. It is a shaft 360 feet deep. This company has been operating the Upper Freeport seam on the double entry system 170 feet down the shaft. The ventilation is produced by a 20 foot fan and is very good, and well distributed throughout the mine. The roof is a hard sand rock, and the drainage is fair. This mine liberates some fire damp, and safety lamps are used exclusively; but owing to the good ventilation there is no standing gas found. The company have pumped the water out of this shaft, and are cleaning up the bottom of the shaft, preparatory to working the Lower Kittanning seam. This seam has not been worked for a number of years, this is a very gaseous seam and will require great care to prevent accidents.

J. A. HUSTED, Supt. E. L. GRIFFITH, Mine Foreman.

J. W. GRIMM and WM. McGINNIS, Fire Bosses

THE MANUFACTURERS COAL & COKE COMPANY.

Series Nos. 328, 329. *Victoria Nos. 1 & 2 Mines*.—These mines are located on Three Fork Creek, one mile north of Hardman on the B. & O. R. R. No. 1, is a drift opening in the Lower Kittanning seam, but has not been operating for the last four years. No. 2 is a slope opening operating the lower Kittanning seam, partly on the triple entry system. The ventilation is produced by a ten foot fan, and fairly good. This mine liberates explosive gas in dangerous quantities and requires very careful handling. Safety lamps are used exclusively, and also shot firers. The roof is very good being a hard slate. The drainage is very good except in some of the haulways. The second opening meets the requirements of the law. This mine has not been in operation since last November owing to a fire, which has been extinguished and the mine is open and ready to resume operation.

These mines were reported last year as Victoria Nos. 1 & 2 Mines, Nos. 328 and 239 of the printed report.

JOHN HUMPHREY, Mine Foreman.

GEORGE PYLES, Fire Boss.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

Series No. 330. *Shrader Mine*.—This mine is located on Three Fork Creek, one and one-half miles north of Hardman on the B. & O. R. R. It is a drift opening operating the Lower Kittanning seam on the double entry system. This mine has not been in operation for two years.

This mine was reported last year as Shrader Mine, No. 330 of the printed report.

TAYLOR COUNTY.

WINONA COAL & COKE COMPANY.

Series Nos. 333, 334. *Winona Nos. 1 & 2 Mines.*—These mines are located four miles west of Grafton, on the B. & O. R. R. They are drift openings. No. 1 is operating the Mahoning seam on the double entry system, and the ventilation is produced by a furnace and is fairly good. The company is installing an air shaft, and will install a fan in the very near future; which will make the ventilation very satisfactory. It is the intention to ventilate Nos. 1 and 2 with the same fan and air shaft. The roof in No. 1 is a hard slate and is very good, the drainage is good and the oil used is of a fair quality. The powder law is strictly observed; the second opening at present does not meet the requirements of the law.

No. 2 is operating the Upper Freeport seam on the double entry system, the coal in this opening is rather poor quality near the crop, but gets better as the headings are driven in the hill. On my last visit there were but two men, working in this mine driving prospect headings.

These mines were reported last year as Winona Nos. 1 and 2 Mins, Nos. 333 and 334 of the printed report.

M. H. LISTON, Supt.

ADAM WHITEHEAD, and

W. H. HUGHES, Mine Foremen.

BRYDON MINE.

Series No. 337. *Brydon Mine.*—This mine is located six miles west of Grafton on the B. & O. R. R. It is a drift opening in the Pittsburg seam. The ventilation is natural, and poor. This mine has not been in operation but very little in the last year and is closed down at the present time.

This mine was reported last year as Brydon Mine No. 337 of the printed report.

W. S. BRYDON, Supt.

McGRAW COAL COMPANY.

Series No. 338. *New York No. 1 Mine.*—This mine is located at Simpson seven miles west of Grafton on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. There has been a sixteen foot fan installed at this mine in the last year, and the ventilation is very good. The drainage is good, and the roof is slate but is fairly good. The general safety is fairly good. There is quite a number of clay veins encountered in this mine, and whenever these clay veins are encountered there is some explosive gas liberated; but the mine is very carefully looked after as to gas and general safety. The law seems to be complied with, with but very few exceptions. There has been a new electric plant installed in the last year, the coal is gathered with a gathering motor and hauled to the side track, and

then hauled by motor about a mile to the head of an incline where it is lowered by cable six hundred feet to the tippie.

This mine was reported last year as New York Mine No. 1, No. 338 of the printed report.

JOHN MALOY, Supt.

OLIVER JENKINS, Mine Foreman.

GRAFTON COAL & COKE COMPANY.

Series No. 339. *Sand Lick Mine*.—This mine is located on a branch of the B. & O. R. R., near Simpson. It is a drift opening operating the Pittsburg seam. The ventilation is natural and very good. There is a number of rooms driven out to the crop, which makes the circulation of air fairly good. This mine is worked by pick miners exclusively, and the coal is hauled out of the mine by horse power, to the head of an incline, and is then lowered some five hundred feet by cable to the tippie. The roof is fairly good throughout the mine, and the drainage is fair. The haulways are somewhat wet and muddy. The work is principally pillar work, and there are very few rooms being worked. The oil used is of a fair quality, and the second opening meets all the requirements of the law.

This mine was reported last year as Sand Lick Mine No. 339 of the printed report

E. J. FAHEY, Supt.

JOHN MCGRAW, Mine Foreman.

MARYLAND COAL COMPANY.

Series Nos. 340, 341, 342-376. *Wendal Nos. 1, 2, 3, 4 & 5 Mines*.—These mines are located eleven miles west of Grafton on a branch of the B. & O. R. R. near Simpson. They are drift openings operating the Pittsburg seam on the double entry system. No. 1 is ventilated by a seven foot fan, and Nos. 2 and 3 are connected under ground, and are ventilated by a 4½ foot fan. No. 4 is ventilated by a four foot fan. The ventilation in these openings are fairly good, and the coal is undercut by electric machines. The roof is of hard slate and is fairly good. The drainage is very good. On my last visit the crosscuts had not been cut through according to law, and I was compelled to order several men out of their working places on this account. No. 5 is a new opening operated on the double entry system, the ventilation in this mine is natural and very bad. I ordered the men all out of this mine, and informed the Mine Foreman and Superintendent not to operate this mine any more until it was properly ventilated. They promised to comply with my request. The coal from each of these openings is hauled by horse power, over a tram road and dumped over the same tippie. The oil used for illuminating purposes in these mines is of a fair quality. Rules are posted, blankets and stretchers are kept on hand.

These mines were reported last year as Wendel Nos. 1, 2, 3 and 4, of the printed report.

GEO. S. BRACKETT, Supt.

AUGUST RICKER, Mine Foreman.

T. B. DAVIS COMPANY.

Series No. 343. *T. B. Davis Mine.*—This mine is located ten miles west of Grafton on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is produced by a small furnace, and is not satisfactory. This mine has quite a number of rock faults, the drainage and roof is good. The ventilation is bad. I recommended that there be a fan installed at once. The coal is hauled by rope haulage, and the oil used is of a fair quality. The second opening meets the requirements of the Law. This mine was reported last year as T. B. Davis Mine No. 343 of the printed report.

W. B. WOLF, Supt. WM. DRAINER, Mine Foreman.

PITTSVEIN COAL COMPANY.

Series No. 344. *Flemington Nos. 2 and 4 Mines.*—These mines are located at Flemington ten miles west of Grafton on the B. & O. R. R. They are drift openings operating the Pittsburg seam on the double entry system. No. 2 opening is all pillar work and is closed down for some time. These mines have worked but very little in the past year. No. 4 is ventilated by a ten foot fan and is well distributed throughout the mine. The roof and drainage in this mine is fairly good. The oil used is of a fair grade, and the coal is under-cut principally with electric machines, and is hauled with electric motor. The second opening meets the requirements of the law. There has been a new tippie built at this mine in the last year.

This mine was reported last year as Flemington Nos. 2 and 4, Mines No. 344 of the printed report.

J. W. DAVIDSON, Supt. G. R. W. JOHNSON, Mine Foreman.

ROSEMONT COAL COMPANY.

Series No. 345. *Rosemont Mine.*—This mine is located eleven miles east of Clarksburg on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. This mine is ventilated by a furnace and partly by natural ventilation and is very good. On my last visit to this mine I found the conditions very much improved. The drainage is fair, and the roof and timbering are very good. The oil used is of a fair quality. Blankets and stretchers kept on hand and rules are posted, and the second opening meets all the requirements of the law. There has been an electric plant installed at this mine in the last year, the coal is hauled from side track in the mine by electric motor to the head of incline, where it is lowered about eight hundred feet by wire cable to the tippie.

This mine was reported last year as Rosemont Mine, No. 345, of the printed report.

JAMES STARFORD, Supt.

FRANK SAVAGE and OLIVER McINTIRE, Mine Foremen.

CLARKSBURG FUEL COMPANY.

Series No. 346. *Tyrconnell Mine*.—This mine is located eleven miles east of Clarksburg on the B. & O. R. R. It is a drift opening in the Pittsburg seam. This has not been in operation for several years. This mine was reported last year as Tyrconnell Mine, No. 346 of the printed report.

ROBERT LOVE, Sr., Supt.

HARRISON COAL COMPANY.

Series No. 347. *Harrison Mine*.—This mine is located ten miles east of Clarksburg on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and is not satisfactory. On my last visit I found places being worked in advance of air, and I ordered the men out, and ordered the Mine Boss to properly ventilate these places, and put them in a satisfactory condition. The roof is a slate and is fairly good and fairly timbered. The drainage is good, and a fair grade of oil is used. The coal is hauled out of the mine by horse power, and is then lowered down an incline eighteen hundred feet to the tippie.

This mine was reported last year as Harrison Mine, No. 347 of the printed report.

H. G. SMITH, Supt.

DAVID SMITH, Mine Foreman.

MOHAWK SMOKELESS COAL COMPANY.

Series No. 348. *Stone House Shaft*.—This shaft is located six miles south of Grafton on the G. & B. R. R. This mine has not been in operation for the last two years.

This mine was reported last year as Stone House Shaft, No. 348, of the printed report.

OFFICIALS NOT KNOWN.

CECIL COAL & COKE COMPANY, changed to JOHNSON BROS. COAL COMPANY.

No. 349. *Cecil Mine*.—This mine is located seven miles south of Grafton on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. This mine has not been in operation but very little during the past year.

This mine was reported last year as Cecil Mine, No. 349 of the printed report.

W. F. JONES, Supt.

OVERHOLT COAL & COKE COMPANY.

Series No. 350. *Overholt Mine*.—This mine is located seven miles south of Grafton on the West side of the Tygarts Valley river. It is a drift op-

ening in the Upper Freeport seam, but has not been in operation in the last two years.

This mine was reported last year as Overholt mine, No. 350 of the printed report.

BARBOUR COUNTY.

LAUREL CREEK COAL COMPANY.

Series No. 351. *Laurel Creek Mine*.—This mine is located nine miles north of Philippi on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a fire-basket, and is fairly good for the number of men employed throughout the mine. The drainage is very good, and the oil is of a fair grade. The coal is hauled out of the mine by horse power, and is lowered down a short incline to the tippie. Blankets and stretchers are kept on hand and rules are posted.

This mine was reported last year as Laurel Creek Mine No. 351 of the printed report.

W. S. BRYDON, Supt.

C. B. TRIMBLE, Mine Foreman.

TYGARTS RIVER COAL COMPANY.

Series No. 352. *Arden Mine*.—This mine is located eight miles north of Philippi on the G. & R. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a twelve foot fan and is very good. The roof is excellent being a very hard slate and well timbered. The drainage is good, and the oil used is of a fair quality. Blankets and stretchers kept on hand. The coal is undercut by compressed air machines of the puncher type. There has been an electric plant installed at this mine in the last year, and the coal is hauled from side tracks from the inside of the mine to the tippie by electric motor.

This mine was reported last year as Arden Mine, No. 352 of the printed report.

CHAS. A. COOK, Supt. ALF WOODS and GEO. GATTIN, Mine Foremen.

MIDLAND COAL & COKE COMPANY.

Series No. 353. *Midland Mine*.—This mine is located at Hackers Junction on the Berryburg Branch of the G. & B. R. R. It is a shaft opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a ten foot fan and is very good. The drainage is very good and the roof is a hard slate and is excellent and well timbered. The coal is undercut by electric machines, and the oil used is a fair grade. This mine has not worked very steady in the last year, and the principal part of the output is converted into coke. The second opening fully complies with the law aid blankets and stretchers are kept on hand.

This mine was reported last year as Midland mine No. 353 of the printed report.

G. C. LANDIS, Supt.

J. BASFORD, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 354. *Berryburg Nos 1 & 2 Mines.*—These mines are located about four miles from Hackers Junction on the Berryburg Branch of the G. & B. R. R. They are drift openings operating the Pittsburg seam on the double entry system. The ventilation in No. 1, is produced by an eleven foot fan, and in No. 2 by a seven foot fan, the ventilation in these openings are very good being well distributed throughout the mine. The drainage is good, but the roof is a soft slate and is very treacherous and well timbered. The oil sold by the operating company is a very good grade. This mine liberates considerable explosive gas in some sections, but is very carefully looked after. The coal is undercut by electric chain machines. Shot firers are employed and safety powder used exclusively. The fan in No. 2 has been installed in the last year, and the coal from each of these openings are hauled by electric motors, and dumped over the same tippie. The second opening in this mine meets all the requirements of the law.

This mine was reported last year as Berryburg Mine, No. 354 of the printed report.

W. W. FURGUSON, Supt.

LEE COTTRELL, Mine Foreman No. 1.

P. L. DILLON, Fire Boss No. 1.

ERNEST LOVE, Mine Foreman No. 2.

A. A. SHAW, Fire Boss, No. 2.

THE MERIDEN COAL MINING COMPANY.

Series Nos. 355-6-7&8. *Meriden Nos. 1, 2, 3 & 4 Mines.*—These mines are located one and one-half miles north of Philippi on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system, these openings are all connected under ground, and are ventilated by a sixteen foot fan and the ventilation is fairly good. The drainage is good. The roof is a hard slate and is excellent. These mines are very dry and dusty, the dust on my last visit was being hauled out and the rooms and headings properly watered. The coal is undercut with electric chain machines and hauled by electric motor to the tippie. The oil used is of a fair quality, and the powder law is fully complied with. The second opening meets with the requirements of the law. This mine has not worked but very little in the last year.

This mine was reported last year as Philippi Collieries Company Nos. 1 & 2 Mines, Nos. 355 and 356 of the printed report.

LEE J. SANDRIDGE, Supt.

G. B. MIRES, Mine Foreman.

Series No. 359. *Meriden No. 5 Mine.*—This mine is located one and one-half miles north of Philippi. It is a drift opening operating the Mahon-

ing seam on the double entry system. This mine has not been in operation during the last year.

This mine was reported last year as Meriden No. 5 Mine, No. 359 of the printed report.

LEE J. SANDRIDGE, Supt.

GRAFTON FUEL COMPANY.

Series No. 360. *Lillian No. 1 Mine.*—This mine is located five miles north of Philippi on the G. & B. R. R. It is a drift opening operating the Mahoning seam on the double entry system, the ventilation is produced by a fire-basket, and is not very good. The roof is excellent being a very hard slate, timbering is fair and the coal is undercut by machines of the puncher type. The oil used is a fair quality, and the coal is hauled by horses to the head of an incline, then lowered by a wire rope to the tippie, and the second opening meets the requirements of the law.

This mine was reported last year as Lillian No. 1 Mine, No. 366 of the printed report.

W. S. BRYDON, Supt.

F. V. ROBINSON, Mine Foreman.

Series No. 361. *Lillian No. 2 Mine.*—This mine is located at Lillian on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a fire-basket, and has not been very satisfactory. The coal is very faulty and dirty, the drainage is good and the roof is fairly good. Shooting on the solid is practiced to some extent, and the second opening meets the requirements of the law.

This mine was reported last year as Lillian No. 2 Mine, No. 361 of the printed report.

W. S. BRYDON, Supt.

F. V. ROBINSON, Mine Foreman.

Lillian No. 3 is a drift in the Lower Freeport seam and is abandoned. It was reported last year as Lillian No. 3 Mine, No. 362 of the printed report.

W. S. BRYDON, Supt.

PENNSYLVANIA FUEL COMPANY.

Series No. 363. *Volga No. 1 Mine.*—This mine is located two miles from Lemley Junction on the Buckhannon Branch of the G. & B. R. R. It is a shaft but has not been in operation for the last year.

This mine was reported last year as Volga mine No. 1, No. 363 of the printed report.

THE CENTURY COAL COMPANY OF WEST VIRGINIA.

Series No. 364. *Century No. 2 Mine.*—This mine is located four miles from Lemley Junction on a Branch of the Buckhannon R. R. It is a drift opening operating the Red Stone seam on the double entry system.

The ventilation is produced by a furnace and is only fair. The drainage is good, the roof is fairly good being rather hard slate and well timbered. The oil used is of a fair grade. This mine will be connected under ground in the near future with No. 1. The second opening fully complies with the law.

This mine was reported last year as Century No. 2 Mine, No. 364 of the printed report.

ED. WILLIAMS, Asst. Supt.

GARFIELD MONDAY, Mine Foreman.

Series No. 365. *Century No. 1 Mine.*—This mine is located five miles from Lemley Junction on the Buckhannon Branch of the G. & B. R. R. It is a shaft opening operating the Red Stone seam on the double entry system. The ventilation is produced by a thirteen and one-half foot fan and is very good, there are three main splits in the ventilating current, with some twenty sub-splits; each set of headings are ventilated by separate and distinct currents of fresh air from the down cast. The stoppings on the main inlets are all built of cement, and in good condition. The drainage is fair, and the roof is fairly good. The oil used is a fair quality, and the coal is undercut with electric machines (principally) and hauled to the bottom of the shaft by electric motors; this liberates some explosive gas, but is carefully looked after.

This mine was reported last year as Century No. 1 Mine, No. 365 of the printed report.

ED. WILLIAMS, Asst. Supt.

A. B. McMURDO, Mine Foreman.

JOHN POKAS,

JOHN DONAHUE,

ADAM ROSCAIRICK, Mine Foremen.

THE PENNSYLVANIA COAL & MINING COMPANY.

Series No. 366. *Adma Mine.*—This mine is located nine miles south of Philippi. It is a drift opening, but has not been in operation for the last two years. Officials unknown.

This mine was reported last year as Adma Mine, No. 366 of the printed report.

CLEMENTS COAL & COKE COMPANY.

Series No. 367. *Clements Mine.*—This mine is located twelve miles south of Philippi on the G. & B. R. R. It is a drift opening, but has not been in operation for the last two years.

This mine was reported last year as Clements Mine, No. 367 of the printed report.

VALLEY COAL & COKE COMPANY.

Series No. 368. *Valley Mine.*—This mine is located one and one-half miles north of Belington on the B. & N. R. R. It is a drift opening but has not been in operation for the last two years. Officials unknown.

This mine was reported last year as Valley Mine, No. 368 of the printed report.

MILLER COAL & COKE COMPANY.

Series No. 369. *Sarah Mine*.—This mine is located about three-quarters of a mile south of Junior on the W. M. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a 14 foot fan, and is very good, the drainage is good, and the roof is a hard slate and is good. Timbering is fairly good, and the oil used is of a fair grade. The coal is undercut with picks, and is hauled by motor to the tippie. The second opening meets the requirements of the law.

This mine was reported last year as Sara Mine, No. 369 of the printed report.

J. W. S. MILLER, Supt.

H. C. HASKINS, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 370. *No. 4 or Dartmoor Mine*.—This mine is located three miles south of Belington on the W. M. R. R. It is a drift opening operating the Upper Freeport seam, but has not been in operation for the last two years.

This mine was reported last year as No. 4 or Dartmoor Mine, No. 370 of the printed report.

W. W. BREWER, Supt.

Series No. 371. *No. 3 Mine*.—This mine is located seven miles south of Belington, on the Belington and Beaver Creek R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a twelve foot fan and is good; this fan had been installed in the last year. The roof and drainage is good, and general safety is fair. The second opening meets all the requirements of the law. Rules in several languages are posted.

This mine was reported last year as No. 3 Mine, No. 371 of the printed report.

W. W. BREWER, Supt.

J. H. DAVIS, Mine Foreman.

DAVIS COLLIERY COMPANY.

Series No. 372. *Junior No. 1 Mine*.—This mine is located at Junior on the W. M. R. R. It is a drift opening in the Upper Freeport seam. This mine has not been in operation in the last year, and has not been inspected.

This mine was reported last year as Junior No. 1 Mine, No. 372 of the printed report.

W. BLOCKSEDGE, Supt.

HUMPHREY COLLIERY COMPANY.

Series No. 374. *Humphrey Colliery*.—This mine is located at Philippi on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a fan and is fairly good. The drainage is good and the roof is a slate and is fairly good. This is a new operation; they shipped their first coal about November, 1908.

This mine was not reported last year.

A. N. HUMPHRY, Supt.

ARNETT LOVE, Mine Foreman.

LUELLA COAL COMPANY.

Series No. 375. *Luella Mine*.—This mine is located at Arden on the G. & B. R. R. It is a drift opening operating in the Freeport seam. This is a new operation, but they have been working but a very little. They shipped their first coal about January, 1909, the officials are unknown to me, as I failed to find any one about the mine on my visit there in June, 1909. This mine was not reported last year.

J. J. ROBINSON, Supt.

FOURTH DISTRICT.

GENERAL SUMMARY OF THE FOURTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYEES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Grant -----	3	---	37	90	32	54	213	36	---	36	249	177,406	---
Mineral -----	24	5	646	33	6	87	772	107	---	107	879	745,658	---
Randolph -----	8	1	361	---	---	81	442	60	96	156	598	463,206	149,602
Tucker -----	13	3	719	76	10	295	1,100	146	110	256	1,356	1,005,873	116,940
Totals--	48	9	1,763	199	48	517	2,527	349	206	555	3,082	2,392,143	266,542

OFFICE OF THE FOURTH DISTRICT MINE INSPECTOR.

Flemington, W. Va., June 25th, 1909.

MR. JOHN LAING,

Chief of the Department of Mines,

Charleston, W. Va.

DEAR SIR:—In compliance with your request of recent date, I herewith submit my annual report, for the fiscal year ending June 30th, 1909.

Permit me to say that while I have sincerely labored and earnestly insisted upon a full compliance with the law to better the condition of the mines in the fourth district, and while I have failed to get the assistance of yourself in some oil prosecutions, nevertheless, it is gratifying to me to be able to report wonderful improvements in the conditions of nearly every single mine in the district as evidenced by the great expenditure of money for improvements, especially by the Davis Coal & Coke Company, who own and operate about one-half of the mines in this district.

By strictly enforcing the law during my incumbency of this office for the year 1908 I have had very little trouble during this year. I have had the full co-operation of the operators, miners and the officials of the law, and also the general public.

I have directed my attention particularly to the care and general safety of the employes under ground, by more systematical care of the roof of the mines, and the handling of mine cars, and the use of explosives.

I am greatly pleased by what has been accomplished, along this line.

There has not been a single fatal accident for the past five months, and very few non-fatals.

My associations with the operators, miners and mine officials have been of the most pleasant nature, and I hereby extend to them my sincere thanks for their co-operation and assistance in the work.

I sincerely regret that my relations with you have not been so genial as they should have been.

Respectfully yours,

J. A. SPRINGER, D. M. I.

CONDITION OF THE MINES IN THE FOURTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 430 indicates the Fourth District and number 30 mine.

RANDOLPH COUNTY.

DAVIS COAL & COKE COMPANY.

Series No. 401. *Weaver No. 1.*—This mine is located on a branch of the W. M. R. R. six miles from Belington, on Beaver Creek. It is a drift mine operating what is now called the Lower Kittanning seam of coal. The mine is operated on the double entry system, and is in splendid condition. Ventilation is produced by a 12 ft. Robinson fan, and is well distributed throughout the mine. Drainage, roof and timbering are good. I found a disposition upon the part of the management to fully comply with the law.

WALTER BREWER, Supt.

HARLEY DAVIS, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 402. *Weaver No. 2.*—This mine is located on a branch of the W. M. R. R. six miles from Belington. It is a drift mine operating the Lower Kittanning seam. This mine is worked on the double entry system. The coal is eight and one-half feet thick and of good quality. Ventilation is produced by a twelve-foot fan, which is giving good results. During the past year this mine has been greatly improved, by the building a number of solid stoppings, two overcasts, and a general cleaning up of the roadways. A new haulage rope was recommended, and by this time is installed. Drainage is good and well looked after. Roof is good. The second opening complies with the law. I found everything that the law requires at the mine. A fair quality of oil is used.

WALTER BREWER, Supt.

G. W. BURKE, Mine Foreman.

DAVIS COLLIERY COMPANY.

Series No. 404. *Coalton No. 1.*—This mine is located on Roaring Creek,

and the Coal & Coke R. R. five miles from Roaring Creek Junction. It is a drift mine operating the Lower Kittanning seam. It is worked on the double entry system, and is a splendid mine. It is ventilated by a twenty ft. Robinson fan, and does splendid work. This mine has been greatly improved during the past year by replacing old wooden stoppings by up to date concrete. The mine has otherwise been much improved by making good, well lighted manways, and many other improvements, which enables the management to conduct their mine in an up-to-date manner. I found everything the law requires on the ground and I desire to congratulate the management on their method of running mines. •

F. C. CORNET, Supt.

W. F. RILEY, Mine Foreman.

W. H. GREEN.

Series No. 405. *Klondyke No. 1.*—This mine is located on Roaring Creek and on a branch of the Coal & Coke R. R. seven miles from Roaring Creek Junction. It is a drift mine operating the Lower Kittanning seam, worked on the double entry system, ventilated by a furnace, which only gives fair results. I recommended the installation of a good fan, which the operator agreed to erect as soon as possible. Drainage and roof are good. The second opening meets law requirements. A good grade of oil was in use. I found a disposition upon the part of the operator to fully comply with the law.

W. H. GREEN, Supt. and Mine Foreman.

DAVIS COLLIERY COMPANY.

Series No. 406. *Sivad No. 2.*—This mine is located on a branch of the Coal & Coke R. R. one mile from Roaring Creek Junction. This is a drift mine operating the lower Kittanning seam. The mine has been very much improved during the past year. In my last year's report this mine was not being worked as the law requires; but I am pleased to say that the management has complied with the law by making the second opening since that time. When last inspected by me this mine was found in fair condition. It is ventilated by furnace which gives good results at this time, but a fan should be installed. Roof is good and drainage fair. This mine has been closed down for several months. When last inspected was in fair condition.

JOSEPH HOYLMAN, Supt. and Mine Foreman.

Series No. 408. *Savad No. 5.*—This mine is located on the Coal & Coke R. R. near Roaring Creek Junction, operating the Lower Kittanning seam, on the double entry system. This mine has been greatly improved since my last annual report, better ventilation, drainage and second openings, made available. Roof is rather dangerous by reason of being so close to outcrop, but is being carefully looked after.

JOSEPH HOYLMAN, Supt. and Mine Foreman.

Series No. 407. *Harding No. 3.*—This mine is located at Harding, W.

Va. on the W. M. R. R. It is a drift opening operating the Lower Kittanning seam, worked on the double entry system. Ventilation is produced by a ten foot fan, run by an electric motor, and when I made my first inspection during the year 1908 the power was taken off the trolley wire, which I promptly ordered changed, and it is now being run by direct line from power house. The ventilation in this mine at this time is good. Drainage, roof and timbering are good. Second opening meets the law requirements. A fair grade of oil was in use. All other requirements of the law were found at the mine. This mine was found in splendid condition when last inspected by me.

W. S. WILSON, Supt. and Mine Foreman.

TUCKER COUNTY.

CUMBERLAND COAL COMPANY.

Series No. 409. *Douglas No. 5.*—This mine is located at Douglas, W. Va., on the W. M. R. R. and is a drift opening, operating the Lower Kittanning seam on the double entry system. This mine is ventilated by a twenty foot fan, which furnishes an abundance of air, and since my last annual report has been very much improved by the building of an over-cast, and quite a number of solid stoppings which are now giving splendid satisfaction. Drainage has been greatly improved during the year. The roof of this mine is rather treacherous, and requires careful watching, and to the credit of the company is being well taken care of. I found everything on the ground that the law requires, except the quality of oil which seems to be of an inferior grade.

J. B. JENKINS, Supt.

A. I. JENKINS, Mine Foreman.

Series No. 410. *Nos. 1, 4 & 5 Mines.*—These mines are located at Douglas on the W. M. R. R., operating the Lower Kittanning seam, on the double entry system. They are model little mines, and is the pride of Mr. Jenkins, the Superintendent, who has taken great care to have everything up-to-date and I must say succeeded admirably with the exception of not having a good fan, which I deem necessary, before everything can be complete in a model mine. The mine is ventilated by a furnace, which gives very good satisfaction for the present. The coal is taken from the mine to the tipples with a steam engine on a tram road one half mile.

J. B. JENKINS, Supt.

RICHARD JENKINS, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 411. *Thomas No. 25 Mine.*—This mine is located at Thomas, on the W. M. R. A. It is a drift opening operating the Upper Freeport seam on the double entry system. Ventilation is produced by an eighteen foot fan, which produces splendid results. The ventilation of this mine is well looked after, and on my last visit was in good shape. This mine liberates considerable gas, but is very closely watched by the officials of the company, on account of unnatural conditions. Solid shooting is some-

times discovered by the Inspector, and when so discovered, was forbidden by him. The drainage, roof and timbering are good.

L. S. McDOWELL, Supt.

W. B. RIGGLEMAN, Mine Foreman,
ARTHUR STEWARD and
JOT GOLDIA, Fire Bosses.

Series No. 412. *Pendleton Run Mine.*—This mine is located at Thomas, on the opposite side of the mountain operating the Upper Freeport seam, on the double entry system. Drainage is bad, roof of a dangerous nature. The coal in this mine has never proven satisfactory, therefore the mine has been somewhat neglected. However, since my last annual report a good fan has been installed, and other improvements made, the coal from this mine is hauled through No. 23 mine and dumped off same tipple on W. M. R. R. at Thomas.

L. S. McDOWELL, Supt.

W. F. REAVES and ROBT. STEWART,
Mine Foremen.

Series No. 413. *Thomas No. 23 Mine.*—This mine is located at Thomas, on the W. M. R. R., operating the Upper Freeport seam on the double entry system. The ventilation is produced by an eighteen foot fan, which is now giving splendid results. This mine was reported last year as being in a very unsanitary condition, has been very greatly improved by building a large number of solid stoppings, straightening air courses; now it has splendid ventilation. Drainage in good condition, roof is fine, doors in good shape. Electric wires and everything conducive for general safety is well looked after. As reported in my last annual report, the practice of taking whole kegs of powder and the use of kerosene oil has been entirely stopped. The officials at this mine have done heroic work to bring this mine up to the standard, and deserve credit for so doing. The company has spent considerable to improve this mine during the year.

L. S. McDOWELL, Supt.

W. F. REAVES and ROBT. STEWART,
Mine Foremen

DAVIS COAL & COKE COMPANY.

Series No. 414. *Thomas No. 3½ Mine.*—This mine is located at Thomas, on the W. M. R. R. It is a shaft mine 187 feet deep operating the Lower Kittanning seam, on the double entry system. No. 34 was reported last year as being in very bad condition. I am pleased to say has been greatly improved, although not yet meeting law requirements. A splendid new fan has been installed, costing \$7,336.00. Pumps, costing approximately \$5,000.00. Solid stoppings, doors, overcasts and many other improvements on the inside have been made. Ventilation has been improved. Roof is being better looked after. The general safety of the mine has been improved. The lack of sufficient pumps during the first part of the year, has hindered the work of improvement, but with the installation of new pumps, it will not be long until this mine should be in good condition. There has been a large expenditure of money on the outside at this plant. New head frame, bin, conveyer, box car

loader, new boiler house, five new boilers, one 500 K. W. Turbine and generator, in all costing something like \$40,000.00.

L. S. McDOWELL, Supt.

SAMUEL HAWKSHAW, Mine Foreman.

Series No. 415. *Coketon No. 36 Mine.*—This mine is located at Coketon on the W. M. R. R. It is a drift mine operating the Lower Kittanning seam on the double entry system. Ventilation is produced by a fifteen foot fan. This mine was also reported by me in my last annual report as being in very poor condition, but I am pleased to say that very great improvement has been made at this mine. Ventilation has been very much improved by the building of solid stoppings, cleaning old air courses, shortening the traveling of the air, until ventilation is in a fair condition. Drainage has been improved, electric wires and roadways greatly improved. The roof is being well looked after. The output of this mine has been largely increased.

M. L. GARVEY, Supt.

JAMES CHRISTOPHER, Mine Foreman.

Series No. 416. *Coketon No. 26 Mine.* This mine is located at Coketon on the W. M. R. R. and is a drift opening operating the Upper Freeport seam, on the double entry system. Ventilation is produced by a fifteen foot fan, and is giving very good satisfaction. The drainage in this mine has not had the attention it should. The roof in some parts of the mine is very dangerous, but is pretty well looked after. The second opening meets the law requirements. Blankets, stretchers, etc., were found at the mine.

M. L. GARVEY, Supt.

JAMES LAKE, Mine Foreman.

Series No. 417. *Coketon No. 37 Mine.* This mine is located at Coketon on the W. M. R. R. and is a drift opening operating the Lower Kittanning seam, on the double entry system. Ventilation is produced by a ten foot exhaust fan. This mine was reported by me last year as being in a very bad condition, but I am pleased to report that many changes have taken place since then. The coal company was fortunate in securing the services of a competent mine foreman, who has revolutionized the entire mine, removed all bad timbering, and all loose slate and dangerous rock, that was reported as being dangerous in my last report, changed the air courses, built overcasts, and in many ways improved this mine until it is in very good condition. This mine had almost been abandoned previous to the coming of Mr. Brennan, the mine foreman, but now the mine is able to get out considerable coal. This only shows the great need of better inside managers, in the mines of this state.

M. L. GARVEY, Supt.

P. J. BRENNAN, Mine Foreman.

Series No. 418. *Coketon No. 35 Mine.* This mine is located at Coketon on the W. M. R. R. and is a drift opening operating the Lower Kittanning seam on the double entry system. This mine was reported in my last annual report as being in a very unsanitary condition. I am only able to report that some improvements have been made, but not what should

have been done. I am informed that this mine will soon be abandoned, and the remaining coal, taken out through No. 36 mine.

At those five mines considerable improvements have been made during the year. The aggregate outlay amounting to something over \$3,500.00.
M. L. GARVEY, Supt. JAMES CHRISTOPHER, Mine Foreman.

BEACON COAL & COKE COMPANY.

Series No. 419. *Beacon Mine*.—This mine is located five miles east of Davis, W. Va., on a branch of the W. M. R. R. It is a drift opening operating the Lower Kittanning seam on the Double entry system. Ventilation is produced by a fourteen foot fan and was fairly good.

W. C. PATTERSON, Supt.

ALEX CLOSE, Mine Foreman.

GRANT COUNTY.

GATZMER COAL COMPANY.

Series No. 420. *Gatzmer No. 1 Mine*.—This mine is located on a lumber road seven miles from Dobbin, W. Va. It is a drift opening operating the Kittanning seam on the double entry system. Ventilation is produced by a furnace, and does not give very good results. This mine has not been running but very little during the year, and I have been unable to inspect said mine but once.

L. D. GASTIGER, Supt.

ALEX WADDELL, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 421. *Henry No. 22 Mine*.—This mine is located at Henry, W. Va. on the W. M. R. R. and on the north branch of the Potomac River. This is a shaft mine 198 feet to the coal, operating the Upper Freeport coal on the double entry system. Ventilation is produced by a 12 foot fan, which only gives fair results, as this mine has a large territory to travel over, and also because of choked condition at bottom of shaft. Drainage and roof are good. This mine liberates some gas, but is being carefully watched, by mine foreman. Safety catches and machinery about the shaft appear to be in fair condition.

W. J. CHRISTOPHER, Supt.

M. V. MANLY, Mine Foreman.

Series No. 422. *Henry No. 33 Mine*.—This mine has been closed down since I have been in the district. It is a shaft mine 419 feet to the coal, Lower Kittanning measure.

W. J. CHRISTOPHER, Supt.

BUFFALO CREEK CUMBERLAND COAL COMPANY.

Series No. 423. *Buffalo Creek No. 1 Mine*. This mine is located one mile south of Bayard, W. Va. on a branch of W. M. R. R. on Buffalo Creek. It is a drift mine operating the Lower Kittanning seam on

the double entry system. Ventilation is produced by a fifteen foot fan and produces good results. The roof is fairly good and well timbered. The second opening meets with the law requirements. Blankets, stretchers, etc., found at the mine. This mine has not been running very regular during this year.

R. D. WADDELL, Supt. and Mine Foreman.

COTTAGE STREET COAL COMPANY.

Series No. 424. *Cottage Street No. 1 Mine.*—This mine is located at Bayard, W. Va., on W. M. R. R., is operating the Upper Freeport seam on the double entry system, and is a small mine, ventilated by a furnace, and has only been inspected by me once this year. The ventilation was sufficient as but only a few miners were working at the time. Drainage is good. Roof needs careful watching.

JOHN JOSE, Supt.

C. C. CHENOWETH, Mine Foreman.

MINERAL COUNTY.

DAVIS COAL & COKE COMPANY.

Series No. 425. *Tyson No. 10 Mine.*—This mine is located at Elk-Garden on a branch of W. M. R. R., seven miles from Harrison, W. Va. It is a drift opening operating the Tyson seam on the double entry system. Drainage has been greatly improved during the year. Roof is bad but well timbered. Ventilation is produced by a furnace, which gives splendid results. The requirements of the law are fully met.

ROBERT GRANT, Supt.

B. S. COLEMAN, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 426. *Elk-Garden No. 6 Mine.*—This mine is located at Elk-Garden on a branch of W. M. R. R. seven miles, from Harrison, W. Va. It is a drift opening the Big Pittsburg seam. The work in this mine consists in drawing pillars and stumps preparatory to abandonment. Ventilation is produced by a fifteen foot fan, and is good. Roof is of dangerous nature but is well looked after. The requirements of the law are fully met at this mine.

ROBERT GRANT, Supt.

F. WILSON, Mine Foreman.

Series No. 427. *Ott No. 20 Mine.*—This mine is located near Elk-Garden on the W. M. R. R. it is a drift opening operating the Lower Kittanning seam, on the double entry system. Ventilation is produced by a fifteen foot fan. It is a good one but distribution of the current has not had the attention it should have had. Some improvements have been made during the year. This mine liberates some gas, and the mine is very dry in some sections, and considerable dust is found in the mine, which is high in volatile matter, therefore very dangerous. Drainage is in fair condition. Roof is rather dangerous, but fairly well looked after.

Timbering in fair condition. Stoppings and doors are not in good condition. Stretchers, blankets, safety lamps, etc., were found at the mine.
ROBERT GRANT, Supt. L. D. VAUGHN, Mine Foreman.

Series No. 428. *Wabash No. 9 Mine*.—This mine is located on Elk-Garden branch of W. M. R. R. four miles from Harrison, W. Va. It is a drift opening the big Pittsburg seam. The work in this mine consists in drawing pillars and stumps. Ventilation is natural, and is sufficient. The roof is of a dangerous nature, but is carefully looked after. In connection with the operation of this mine a new opening has been made, which is now producing considerable coal. Ventilation in the new drift is natural and only fairly good. Drainage is good. All other requirements of the law are fully met.
ROBERT GRANT, Supt. JACOB OTT, Mine Foreman.

Series No. 429. *Kittanning No. 15 Mine*.—This mine is located on Elk-Garden branch of W. M. R. R. two miles from Harrison, W. Va., and on Abrams Creek. It is a drift opening operating the Kittanning seam on the double entry system. This mine is ventilated by furnace and only gives fair results. Roof is fairly good. Timbering in good shape when last inspected. This mine has not been working but very little during the past year.
ROBERT GRANT, Supt. JOHN KILROY, Mine Foreman.

ABRAMS CREEK COAL & COKE COMPANY.

Series No. 430. *Oakmont No. 1 Mine*.—This mine is located on the Elk-Garden branch of the W. M. R. R. one mile from Harrison, W. Va., and on Abrams Creek. It is a drift opening operating the Upper Freeport seam, on the double entry system. Ventilation is produced by an eight foot Stine fan. The ventilation of this mine has been materially improved during the past year by building an overcast and splitting the air current, enabling air to reach working face by shorter course. Drainage is fair. Roof is of a dangerous nature, but is fairly well looked after. Parts of this mine are very dry and care should be exercised during the cold months especially not to permit dust to accumulate in large quantities. The requirements of the law are being met by this company.
THOMAS MACKEY, Supt. and Mine Foreman.

MASTELLER COAL & COKE COMPANY.

Series No. 433. *Hampshire 4 Foot Mine*.—This mine is located at Hampshire, on the W. M. R. R. It is a drift opening operating the Four Foot seam on the double entry system. Ventilation is produced by a ten foot fan, which at this time is greatly hampered by reason of air courses being filled up. Drainage is fairly good. Doors, and stoppings only fair. This is an old mine and will soon be worked out. Stretchers, blankets, etc., will be found at the mine.
J. C. WATSON, Supt. GRANT HARSHBURGER, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 434. *Kittanning No. 1 $\frac{1}{2}$ Mine.*—This mine is located on the Elk-Garden branch of the W. M. R. R. one mile from Harrison and on Abrams Creek. It is a drift opening operating the Upper Freeport seam on the double entry system. The mine and tippie are connected by an incline plane 650 ft. long. Ventilation is produced by a fifteen foot fan, which is giving good results. Drainage is good, roof and timbering are good. Parts of this mine are very dry and should be carefully watched. Considerable improvements have been made at this mine during the year in the way of solid stoppings, etc., I found all requirements of the law at this mine.

ROBERT GRANT, Supt.

F. C. PATTON, Mine Foreman.

SMITH COAL COMPANY.

Series No. 435. *Smith No. 1 Mine.*—This mine is located near Blaine, W. Va. on the W. M. R. R. It is a drift opening operating the Lower Kittanning seam on the double entry system. Ventilation is produced by a twelve foot fan, and is good and well distributed. Drainage is good. The roof is good except in certain sections, it is well looked after. Blankets, stretchers, etc., and all the requirements are being fully complied with. The mine is connected to tippie by plane 500 feet long.

R. A. SMITH, Supt.

JOHN ROWLAND, Mine Foreman.

GLEASON COAL & COKE COMPANY.

Series No. 436. *Gleason No. 2 Mine.*—This mine is located on the W. M. R. R. at Gleason. It is a drift opening operating the Lower Kittanning seam on the double entry system. Ventilation is produced by an eight foot Stine Fan, which gives good results, but the neglect in not building solid stoppings greatly hinders the ventilating current, and otherwise interferes with the sanitary condition of the mine. Drainage is in fair condition. Roof is good, second opening meets the requirements of the law.

J. M. DAVIS, Supt.

R. STOTTLEMIER, Mine Foreman.

GLEASON COAL & COKE COMPANY.

Series No. 437. *Gleason No. 1 Mine.*—This mine is located at Gleason on the W. M. R. R. but has been idle during the past year, therefore not inspected by me.

J. M. DAVIS, Supt.

DAVIS COAL & COKE COMPANY.

Series No. 438. *Montgomery Run No. 19 Mine.*—This mine is located on the W. M. R. R. and on Montgomery Run. It is a drift mine operating the Lower Kittanning seam, on the double entry system. Ventilation

is produced by a ten foot fan which gives splendid results, and is well distributed throughout the mine. Drainage, roof and timbering are good. Considerable improvement has been made at this mine during the year by building betting stoppings, and carefully protecting the electric wires in the mine. All other requirements of the law are fully met.

O. TIBBETS, Supt. J. A. TIBBETS, Mine Foreman.

Series No. 439. *No. 50 Mine*.—This mine is located on Montgomery Run, near W. Va., Junction, on the W. M. R. R. It is a drift mine operating the Four Foot seam on the double entry system. Ventilation is produced by a ten foot fan, which makes plenty of air, and is now very well distributed to working face. All stoppings have been improved during the year. Drainage is good. Roof fair and well timbered. Requirements of the mine law are fully complied with.

O. TIBBETS, Supt. J. A. TIBBETS and
JOHN SWADLEY, Mine Foremen.

Series No. 440. *No. 51 Mine*.—This mine is located on Montgomery Run near West Virginia Junction, and on the W. M. R. R. It is a drift mine operating the Four Foot seam, on the double entry system. The ventilation is produced by a 12 foot fan, which was installed during the past year. This mine has been very much improved in the past year by building overcasts, repairing stoppings, and other improvements. All requirements of the mine law were found at this mine.

O. TIBBETS, Supt. J. A. TIBBETS and
JOHN SWADLEY, Mine Foremen.

BIG VEIN COAL COMPANY OF WEST VIRGINIA.

Series No. 441. *Shaw 1/2 Foot*.—This mine is located eleven miles from Piedmont. It is a drift mine operating the Four Foot seam on the double entry system. Ventilation is produced by an eight foot fan which gives very good results. Drainage is good. Roof and timbering fair. This mine has worked but very little during the past year, and has been inspected by me but once since my last annual report. All instruments required by law have been provided.

ONA BALLS, Supt. WILLIAM VISTS, Mine Foreman.

DENMAN COAL COMPANY.

Series No. 433. *Denman No. 3 Mine*.—This mine is located on branch of W. M. R. R. four miles from Harrison, and on Abram Creek. It is a drift opening operating the Upper Freeport seam on the double entry system. It is ventilated by a poorly constructed furnace, which was insufficient for the mine. A good fan was recommended by me, but the mine closed down and has not been running during the latter part of the year. Drainage was in fair condition. Coal is very low and hard to produce.

THOMAS TAYLOR, Supt. W. S. SEAMAN, Mine Foreman.

WESTERN MARYLAND COAL COMPANY.

Series No. 446. *Blaine Nos. 2, 3 & 4 Mines*.—These mines are located at Blaine, W. Va., on the W. M. R. R. They are drift mines operating the Kittanning seam, on the double entry system. Ventilation is natural and not very satisfactory. A fan was recommended by me when I first inspected this mine. The company was just opening the mine and was not yet ready to place any mechanical means for ventilation. The three openings are being driven separate from each other, and when further developed may be connected. This mine has been inspected but once.

S. B. BRYDEN, Supt.

F. J. BELL, Mine Foreman.

RANDOLPH COUNTY.

DAVIS COAL & COKE COMPANY.

Series No. 403. *Leiter No. 5 Mine*.—Has been idle during the year and I am informed has been abandoned.

TUCKER COUNTY.

Series No. 419. *Beacon No. 1 Mine*.—Has been partly idle during the year, therefore not inspected.

MINERAL COUNTY.

Series No. 431. *Karr No. 1 Mine*.—Has been idle during the year.

Series No. 432. *Virginia No. 2 Mine*.—Has been idle during the year.

Series No. 444. *Sarah No. 1 Mine*.—Has been idle during the year.

Series No. 445. *New Creek*.—Has been idle during the year.

The above mines except Beacon have been idle during the year, therefore have not been inspected by me.

J. A. S.

FIFTH DISTRICT.

GENERAL SUMMARY OF THE FIFTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES,								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.			Sum Totals.
Braxton	5		78			13	91	9		9	100	93,024	
Clay (part)	2		21	28	4	8	61	6		6	67	21,333	
Gilmer	1		25			3	28	2		2	30	14,740	
Fayette (prt)	13	3	357	821	108	534	1,820	192	174	366	2,186	1,442,436	184,811
Kana. (prt)	39	3	372	903	179	423	1,877	306		306	2,183	1,131,640	
Mason	7	1	150	45	8	34	237	34		34	271	106,802	
Putnam	11	3	604	20	4	171	799	206		206	1,005	378,420	
Totals	78	10	1,607	1,817	303	1,186	4,913	755	174	979	5,842	3,188,395	184,811

OFFICE OF FIFTH DISTRICT MINE INSPECTOR,
Clifton, W. Va., July 6th, 1909.

HON. JOHN LAING,

Chief of the Department of Mines,
Charleston, W. Va.

DEAR SIR:—I herewith respectfully submit to you my Annual Report as Inspector of the fifth mining District of West Virginia, for the year ending June 30, 1909.

During the year, the coal business throughout the District has not been very prosperous—a large per cent of the mines being operated only about half the time and a few being idle during the entire year. The principal improvement made this year has been the construction of substantial stoppings and overcasts to better the system of ventilation. Owing to the depression in the coal business, there have been no new developments.

The natural condition of the mines throughout the Fifth District are favorable to operation with general safety to employes as none of the mines liberate explosive gas in dangerous quantities, only a few of them are dusty to the extent of requiring watering; and by far the greater number have roofs of excellent quality. Moreover, only a small per cent of the miners are non-English speaking, the remainder, as a rule, being experienced, practical workmen, who are willing to be governed

by the requirements of the State Mining Law, or any instructions issued by the Department of Mines. In my opinion, our present law, if properly enforced, is sufficient to cover the working condition in the Fifth District. Many of the serious explosions that have occurred throughout the State have been caused by the excessive and careless use of black powder. This being the case, in my judgment, the Mine Department should prohibit the use of dynamite in the mines, for shooting coal or for any other purpose except under the supervision of practical and experienced men, and should regulate and control the use of black powder in dry, dusty mines and in mines that liberate explosive gas, either by substituting for it permissible safety explosive, or by compelling the employment of shot fiars. This movement would certainly have the support of all fair minded operators.

It is a well known fact that many of the mine foremen throughout the State fail to familiarize themselves with the State Mining Law. They are ignorant as to what constitutes a proper system of ventilation, and have practically no knowledge of explosive gases. This condition can only be changed by requiring the mine foremen and fire bosses to pass an examination as to their competency.

I certainly appreciate the courteous treatment extended me by mine officials and employees, and heartily thank you for the able advice and assistance I have received from you as Chief of the Department of Mines.

Respectfully yours,

EARL A. HENRY,
Mine Inspector Fifth District.

CONDITION OF THE MINES IN THE FIFTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 512 indicates the Fifth District and number 12 mine.

MASON COUNTY.

HARTFORD COAL & MINING COMPANY.

P. O., HARTFORD, W. VA.

Series No. 501. *Hartford Mine.*—This is a slope mine located at Hartford on the B. & O. R. R., operating in the Pittsburg seam of coal which has a thickness of four and a half feet. The roof is sandstone and slate. In the advance headings the roof is slate of a dangerous nature and requires careful attention to insure safety. The mine is developed on the double entry system and ventilated by a ten-foot fan with fair results. Crosscuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in fair condition only. In some

sections of the mine they have considerable water to contend with; drainage only fair. Safety lamps and stretchers on hand as required by law.

A. C. BLOWERS, Supt.

KEM HARRISON, Mine Foreman.

THE LIVERPOOL SALT & COAL COMPANY.

P. O., HARTFORD, W. VA.

Series No. 502. *Jackson Furnace*.—This is a drift mine, located at Hartford, operating in the Pittsburg seam, which has a thickness of four and a half feet. The roof is slate and generally good, and properly timbered. The mine is developed on the double entry system and ventilated by a ten-foot fan which fails to furnish sufficient air for the proper ventilation of the mine. Cross cuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in need of repair. They have a large quantity of water to contend with; drainage fair. The ventilation of this mine was found to be deficient, principally due to the worn out condition of the fan. The attention of the management was called to this deficiency with the recommendation that the necessary repairs be made to place the system of ventilation in condition to meet with the requirements of law. Second opening in fair condition only. The law relative to safety lamps and stretchers complied with.

H. F. SMITH, Supt.

SAMUEL EDWARDS, Mine Foreman.

MASON CITY COAL MINING COMPANY.

P. O., MASON, W. VA.

Series No. 503. *Linden Mine*.—This is a drift mine, located one mile east of Mason, on the B. & O. R. R. operating the Pittsburg seam which has a thickness of five feet. The roof is slate and sandstone and very good, and properly timbered. The mine is developed on the double entry system and ventilated by a five-foot fan which furnishes sufficient air for the present development. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings are built of lumber as it is not thought necessary to build them of concrete, as the mine being practically finished will soon be on the retreat. There is but little water to contend with; drainage good. Second opening in good condition. Rules posted. Safety lamps and stretchers on hand.

C. J. RYAN, Supt.

WILLIAM POTTS, Mine Foreman.

P. O., MASON, W. VA.

Series No. 504. *Klondike Mine*.—This mine adjoins the Linden Mine and during the year was purchased by the Mason City Coal Mining Company, since which time it has been worked in connection with and become a part of the Linden Mine—the name Klondike being dropped.

DIXIE COAL COMPANY.

P. O., MASON, W. VA.

Series No. 505. *Dixie Mine*.—This is a drift mine, located at Mason on the B. & O. R. R., operating in the Pittsburg seam, which has a thickness of four and a half feet. The roof is slate and of good quality, and the mine is properly timbered. The mine is developed on the double entry system and ventilated by a furnace which furnishes sufficient air for the present development. Drainage good. This mine has developed but little during the past year, having been idle a greater part of the time. The second opening in fair condition. Law relative to rules, safety lamps and stretchers complied with.

G. H. GRESS, Supt.

BEN PHILIPS, Mine Foreman.

BEECH GROVE COAL COMPANY.

P. O., MASON, W. VA.

Series No. 506. *Beech Grove Mine*.—This is a drift mine, located near Mason on the B. & O. R. R., operating in the Pittsburg seam, which has a thickness of five feet. The roof is slate and sandstone of good quality, and properly timbered. The mine is developed on the double entry system and ventilated by a temporary furnace with only fair results. Cross-cuts between entries and rooms are regularly driven. Sections of the mine are very wet; drainage fair. Second opening in fair condition. This mine has been idle the greater portion of the year.

JOSEPH ICENHOUR, Supt.

FRED ICENHOUR, Mine Foreman.

CONSUMERS' COAL & MINING COMPANY.

P. O., SPILMAN, W. VA.

Series No. 507. *Camden Mine*.—This is a drift mine, located at Spilman on the B. & O. R. R., operating the Pittsburg seam, which has a thickness of four feet. The roof is slate and sandstone. In some sections of the mine the slate roof is of a dangerous character and requires careful attention to insure safety. The mine is developed on the double entry system and ventilated by a ten-foot fan which furnishes sufficient air for the proper ventilation of the mine. Cross-cuts, between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. Some sections of the mine are very wet with a large quantity of water to contend with; drainage good. There has been but little development in this mine during the past year, the mine having been idle the greater part of the time. Law relative to rules, safety lamps, and stretchers, complied with.

M. G. TYLER, Supt.

JAMES SMITH, Mine Foreman.

PUTNAM COUNTY.

OAK FOREST COAL COMPANY.

P. O., WINFIELD, R. F. D. NO. 2, W. VA.

Series No. 508. *Oak Forest Mine*.—This is a slope mine, located at Oak Forest on the south side of the Kanawha river, three miles north of Winfield. Operations are in the Pittsburg seam, which has a thickness of four feet. The roof is slate of a fair quality, and properly timbered. Drainage good. The mine is developed on the double entry system and ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in good condition. Second opening in fair condition only. Law relative to rules, safety lamps, and stretchers complied with. The mine was idle six months during the year, during which time an electric plant and chain-cutting machines were installed.

D. L. THOMAS, Supt.

WILLIAM L. THOMAS, Mine Foreman.

PLYMOUTH COAL & MINING COMPANY.

P. O., PLYMOUTH, W. VA.

Series No. 509. *Plymouth Mine*.—This is a drift mine located at Plymouth on the K. & M. R. R., operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate which in some sections is of a dangerous character, requiring the use of a great deal of timber to insure safety. The miners, as a rule, are practical workmen and the working places are properly timbered. The mine is developed on the double entry system and ventilated by two fans, a six-foot Thayer, and a twelve-foot Crawford & McCrimmin, which furnish sufficient air for the proper ventilation of the mine. A large quantity of black damp is given off from the old and abandoned workings to the extent that the twelve-foot fan is operated day and night in order to keep the haulway and working places clear of any accumulations of this gas. Cross-cuts between entries and rooms are driven at the distances required by law. Stoppings on the main air-way are substantially constructed. System of drainage fair. Second opening in first class condition. Mr. Virgin, the general Mine Foreman of the three mines operated by the Plymouth Company has a thorough knowledge of all gases met with in the coal mines and the best methods of ventilation and is ever alert to the safety of the men in his charge. The management cheerfully complies with all instructions from the Mine Department. Rules posted. Safety lamps and stretchers on hand as required.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Foreman.

P. O., PLYMOUTH, W. VA.

Series No. 510. *Manilla Mine*.—This is a drift mine, located at Ply-

mouth, operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character, requiring close attention to timbering to insure safety. As a rule the miners are practical workmen and the places are well timbered. The developments are on the double entry system ventilated by a sixteen-foot fan with excellent results. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings on the main air-way are substantially constructed. The required splits in the air-current are regulated by overcasts, and check doors on the room headings properly distribute the air to the working places. Drainage good. Second opening in fair condition. The law regarding rules, safety lamps, and stretchers complied with.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Foreman.

P. O., PLYMOUTH, W. VA.

Series No. 511. *California Mine*.—This is a drift mine, located at Plymouth, operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character and must be securely timbered to insure safety. The miners are generally practical workmen and keep their working places properly timbered. Developments are on the double entry system, ventilated by a six-foot fan. Cross-cuts between entries and rooms are driven at the legal distance. Stoppings on the main air-way substantially constructed. The required splits in the air-current are obtained by overcasts and check doors on room headings properly distributed the air to the working places. Drainage good. Second opening in fair condition. The mines of the Plymouth Company are operated exclusively by pick work. The management insists on the coal being mined in a practical manner, giving careful attention to the removal of any accumulations of dust and keeping dusty sections thoroughly watered. The law relating to rules, safety lamps, and stretchers complied with.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Foreman.

BLACK BETSEY COAL & MINING COMPANY.

P. O., BLACK BETSEY, W. VA.

Series No. 512. *Black Betsey No. 1 Mine*.—This is a drift mine, located at Black Betsey on the K. & M. R. R., operating the Pittsburg seam, which has an average thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character and must be securely timbered to insure safety. As a rule the workmen keep their places properly timbered. The mine is developed on the double entry system, ventilated by an eight-foot fan which fails to furnish sufficient air to meet with the full requirements of the law, this being principally due to the large development and the distance the air has to travel. Cross-cuts between entries and rooms driven at the proper distances. Doors and stoppings in fair condition. Drainage good. Refuge holes

are maintained on the motor haulway at the distance required by law. Second opening in first-class condition. Law relating to rules safety lamps and stretchers complied with.

C. L. TIPPETT, Supt.

J. W. HARGRAVES, Mine Foreman.

P. O., BLACK BETSEY, W. VA.

Series No. 513. *Black Betsey No. 2 Mine.*—This is a drift mine, located at Black Betsey, and operated in connection with the No. 1 Mine. Operations are in the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and is of a dangerous character which has to be well timbered to insure safety. As a rule the miners give careful attention to the timbering of their working places. The mine is developed on the double entry system, ventilated by an eight-foot fan which furnishes sufficient air for the present development. Cross-cuts between entries and rooms are driven at the proper distances with concrete stoppings on the main air-way, and overcasts to give the required splits in the air-current. On several occasions the advanced headings have liberated explosive gas, but never in quantities sufficient to cause an explosion. Only pick miners are employed in the Black Betsey Mines and, in some instances, the Company has experienced considerable trouble in preventing shooting from the solid and having the coal properly mined. Some sections of the mine are very wet. System of drainage fair. Second opening in good condition. The officials of this company readily comply with any instructions given by the Mine Department.

C. L. TIPPETT, Supt.

J. W. HARGRAVES, Mine Foreman.

THE OTTO MARMET COAL & MINING COMPANY.

P. O., RAYMOND CITY, W. VA.

Series No. 514. *Big Otto No. 1 Mine.*—This is a drift mine located on Harmon's Creek five miles east of Raymond City, the Otto Marmet Company operating a short line railroad to deliver the product of this mine to the river tipple and also to the K. & M. R. R. Operations are in the Pittsburg seam which has a thickness of five and a half feet with a slate roof which in some sections is of a dangerous character and requires proper timbering to insure safety. As a rule the miners are practical workmen, and their places properly timbered. The mine is practically dry; drainage good. Developments are on the double entry system ventilated by an eight-foot fan with fair results. Cross-cuts between entries and rooms are driven at the proper distances; mine doors and stoppings in fair condition. There are two separate in-take air-ways in this mine with an overcast to give the required splits in the air-current. Second opening in good condition. Law relative to rules, safety lamps, and stretchers complied with.

EDWARD SCHONEBAUM, Supt.

ANDREW UTT, Mine Foreman.

P. O., RAYMOND CITY, W. VA.

Series No. 515. *Big Otto No. 2 Mine*.—This is a drift mine located on Harmon's Creek and operated in connection with Big Otto Mine No. 1, operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character. The miners are well supplied with timber, and as a rule the working places are properly timbered. Developments are on the double entry system, ventilated by a fan at No. 1 Mine, the two mines being connected by an air-course for this purpose with fair results. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in good condition. The second opening meets with the requirements. Law relative to rules, safety lamps, and stretchers complied with.

EDWARD SCHONEBAUM, Supt.

ROBERT FIELDS, Mine Foreman.

P. O., RAYMOND CITY, W. VA.

Series No. 516. *Big Otto No. 3 Mine*.—This is a drift mine and is located on Harmon's Creek, operating in the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections of a dangerous character which requires careful timbering to insure safety. The miners as a rule are practical workmen, and the working places are properly timbered. The mine is practically dry, having but little water to contend with, drainage good. Developments are on the double entry system ventilated by an eight-foot fan with good results as the ventilation meets with the requirements of the mining law. Cross-cuts between entries and rooms are driven at the regular distances. Doors and stoppings in fair condition. No mining machines are used in the mines operated by this company, the entire production is by pick miners, and in some instances the Company has experienced trouble in prohibiting solid shooting. The second opening in first class condition. Rules are posted. Safety lamps and stretchers on hand. Superintendent and mine foreman readily comply with any instructions issued by the Mine Department.

EDWARD SCHONEBAUM, Supt.

ROBERT FIELDS, Mine Foreman.

ALPHA COAL MINING COMPANY.

P. O., PLYMOUTH, W. VA.

Series No. 517. *Alpha Mine*.—This is a drift mine located one mile east of Plymouth on a branch of the K. & M. R. R., operating in the Pittsburg seam which varies in thickness from four and a half to five feet. The roof is slate which in some sections is of a dangerous character, and has to be well timbered to insure safety. As a rule the working places are properly timbered. Developments are on the double entry system ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms driven at the regular distances; doors and stoppings

in fair condition. The second opening meets with the requirements. This mine has been idle practically the entire year.

J. C. FISH, Supt.

JAMES HARGRAVES, Mine Foreman.

KANAWHA COUNTY.

MILL CREEK CANNEL COAL COMPANY.

P. O., VILLA, W. VA.

Series No. 518. *Mill Creek Mine*.—This mine is located at Villa on Mill Creek on a narrow guage road four and a half mile from the main line of the Coal & Coke R. R. It is a drift operating in the Cannel Coal Seam which varies in thickness from three to four and a half feet. The roof is slate which in some sections is of a dangerous character, and must be well timbered to insure safety. The mine is developed on the double entry system ventilated by a twelve-foot fan, with fair results. Owing to the faulty condition of the coal in sections of this mine it is practically impossible to have the cross-cuts driven at the proper distances. Doors and stoppings in fair condition. Drainage fair. The second opening meets with legal requirements. The law relative to rules, safety lamps and stretchers is complied with.

C. H. MEADE, Supt.

R. W. BRUNK, Mine Foreman.

THE GRAHAM COAL COMPANY.

P. O., GRAHAM MINES, W. VA.

Series No. 519. *Graham Mine*.—This is a drift mine located at Mason, eight miles north of Charleston on the Coal & Coke R. R., operating the Coalburg seam which has a thickness of five and a half feet. The roof is slate and is generally good. The mine is developed on the double entry system ventilated by a temporary furnace. Second opening in fair condition. This mine has not been in operation during the year, and for this reason no inspection or report was made.

W. H. GRAHAM, Supt.

PEN-MAR MINING COMPANY.

P. O., GRAHAM MINES, W. VA.

Series No. 520. *Pen-Mar Mine*.—This is a drift mine located at Mason on the Coal & Coke R. R., six miles east of Charleston, operating the Coaburg seam which has a thickness of five feet. The roof is slate and of excellent quality, requiring but little timber to be used to insure safety. The mine is being developed on the double entry system, and is ventilated by a temporary furnace with fair results. This mine is operated on a cheap scale employing less than ten persons at any one time and only operated at irregular intervals. The mine is damp through-

out with no accumulations of dust. System of drainage poor. Second opening in fair condition. Several months ago this mine was placed in the hands of a receiver and but little attention has been given to the development.

JACOB HOUSEHOLDER, Supt. and Mine Foreman

FALLING ROCK CANNEL COAL COMPANY..

P. O., WEIR, W. VA.

Series No. 521. *Jones Mine*.—This is a drift mine located five miles east of Falling Rock on a narrow guage road to the Coal & Coke. The Cannel Coal seam is operated at this point and varies in thickness from twenty-four to thirty inches. The roof is slate and sandstone which is very good and is properly timbered. The mine is developed on the double entry system ventilated by a twelve-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances. Doors and stoppings in fair condition. But few persons are employed in this mine at any one time. The second opening in good condition. Law relative to rules, safety lamps, and stretchers complied with.

E. E. YOUNG, Supt.

R. B. YOUNG, Mine Foreman.

P. O., WEIR, W. VA.

Series No. 522. *Falling Rock No. 2 Mine*.—This mine is located five miles east of Falling Rock on a narrow guage road to the Coal & Coke. It is a drift, operating the Cannel Coal seam varying in thickness from twenty-four to thirty inches. The roof is slate and sandstone which is generally good and properly timbered. Drainage fair. The mine is developed on the double entry system, ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. The second opening meets with the legal requirements. As yet the developments in this mine are small it being practically a new one, having been in operation less than two years.

E. E. YOUNG, Supt.

R. B. YOUNG, Mine Foreman.

THE QUEEN SHOALS COAL COMPANY.

P. O., QUEEN SHOALS, W. VA.

Series No. 523. *Queen Shoals Mine*.—This mine is located at Queen Shoals on the main line of the Coal & Coke R. R. It is a drift operating the No. 5 seam, which varies in thickness from three and a half to five feet. The roof is slate and sandstone which is very good and properly timbered. The mine is developed on the double entry system, ventilated by a furnace with fair results. The work at this mine is principally the drawing of pillars. Second opening in good condition.

W. R. MORRIS, Supt.

G. W. MILLER, Mine Foreman.

QUEEN COAL & COKE COMPANY.

P. O., HEATHERMAN, W. VA.

Series No. 524. *Turner Mine*.—This mine is located one mile east of Turner on a branch line of the Coal & Coke R. R., is a drift mine operating the No. 5 seam, which has a thickness of three and a half feet. The roof is slate and sandstone which is generally good and properly timbered. The mine is developed on the double entry system, ventilated by a ten-foot fan which furnishes sufficient air if properly distributed to the working places. Cross-cuts between entries and rooms were not being driven at the proper distances in some sections of the mine. Mine doors and stoppings in defective condition, causing the ventilation to be deficient to some extent. The Superintendent's attention was called to the defective ventilation and he gave the assurance that the necessary improvements in ventilation would be made without delay. Second opening in good condition.

A. H. LEA, Supt.

C. G. CANTLEY, Mine Foreman.

LUCAS RAY COAL COMPANY.

P. O., HEATHERMAN, W. VA.

Series No. 525. *Lucas-Ray Mine*.—This is a drift mine located two miles east of Turner on a branch line to the Coal & Coke R. R., operating the No. 5 seam which has a thickness of three feet. The roof is slate and is generally good. This mine is practically abandoned as it has been idle for the past eighteen months and most of the equipment has been sold and taken from the premises. For this reason no inspection or report was made of this mine.

JEFFERSON COAL & COKE COMPANY.

P. O., HEATHERMAN, W. VA.

Series No. 526. *Heatherman Mine*.—This is a drift mine located one and a half miles east of Turner on a branch line to the Coal & Coke R. R., operating the No. 5 seam which has a thickness of three and a half feet. The roof is slate and generally good. This mine is practically abandoned as it has been idle for the past two years and most of the equipment has been sold and taken from the premises. For this reason no inspection was made.

HARTS BRANCH COAL COMPANY.

P. O., QUEEN SHOALS, W. VA.

Series No. 528. *Harts Branch Mine*.—This is a drift mine located near Queen Shoals on the main line of the Coal & Coke R. R., operating the No. 5 seam which has a thickness of three and a half feet. The roof

is slate and generally good. This mine is practically abandoned. Most of the equipment has been sold and taken from the premises. The mine has been idle for more than a year. For this reason no report or inspection was made.

P. O., CLENDENIN, W. VA.

Series No. 527. *Taggart Mine*.—This mine is a drift located one-half mile north of Clendenin on the Coal & Coke R. R., operating the No. 5 seam, which varies in thickness from twenty-four to thirty inches. The roof is slate and is generally good. The mine is developed on the double entry system and ventilated by a temporary furnace. The second opening fails to meet with the requirements of law. This mine was visited, but no inspection made as the mine had been idle during the year and no one in official capacity could be found, or information obtained as to when the mine would resume operation.

THE CLAY COAL COMPANY.

P. O., BARREN CREEK, W. VA.

Series No. 529. *Bradley White Ash Mine*.—This is a drift mine located at Barren Creek, one mile east of Queen Soals, on the Coal & Coke R. R., operating the No. 5 seam which has a thickness of four feet. The roof is slate which is generally good, and well timbered. The mine is developed on the double entry system, ventilated by a furnace with fair results. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. There is but little water to contend with, but sufficient moisture throughout the mine to allay the dust. Second opening in good condition. Law relative to rules, safety lamps, and stretchers complied with.

GEORGE GAGHAN, Supt.

WILLIAM WOODRUM, Mine Foreman.

BLUE CREEK COAL & LAND COMPANY.

P. O., BLAKELEY, W. VA.

Series Nos. 530 & 531. *Wills Hollow, Nos. 1 & 2 Mines*.—These are drift mines located one mile west of Blakeley on the Kanawha & West Virginia Railroad operating the No. 5 seam, varying in thickness from four to five feet. The roof is slate and fairly good. Developments are on the double entry system, ventilated by two six-foot fans with very fair results. Drainage is fair. These mines have not been operated during the last eleven months of the past year.

D. H. MORTON, Supt.

P. O., BLAKELEY, W. VA.

Series No. 532. *Blakeley No. 3 Mine*.—This mine is a drift mine lo-

cated at Blakeley on the Kanawha & West Virginia Railroad operating the No. 5 seam varying in thickness from three to five feet. The roof is sandstone and slate which is fairly good and well timbered. Drainage fair. There are three separate openings to this mine, developed on the double entry system. The No. 3 drift is ventilated by a six-foot fan with good results, while the Nos. 1 and 2 drifts are ventilated by temporary furnaces which fail to furnish sufficient air for a proper system of ventilation. Cross-cuts are driven at the regular distances. Doors and stoppings in fair condition. Second opening meets with legal requirements. This mine was developed but little during the past year having been idle two-thirds of the time.

D. H. MORTON, Supt.

ROBERT MILLER, Mine Foreman.

P. O., BLAKELEY, W. VA.

Series No. 533. *Blakeley No. 4 Mine*.—This mine is located at Blakeley on the Kanawha & West Virginia Railroad, operating the Lewiston seam which has a thickness of four and a half feet. The roof is slate which is generally good. Developments are on the double entry system, ventilated by a temporary furnace. This mine has been idle for the past two years.

D. H. MORTON, Supt.

COLUMBIA COAL MINING COMPANY.

P. O., BLUE CREEK, W. VA.

Series Nos. 534, 535 & 536. *Shrader Mines, Nos. 1, 2 & 3*.—These are drift mines located on Blue Creek, on the Kanawha & West Virginia Railroad. They operate the No. 5 seam which varies in thickness from three and a half to four feet. The roof is slate and is generally good. The mines are developed on the double entry system, and ventilated by temporary furnaces. These mines have been idle for the past two years and no information could be obtained as to when they would resume operation.

RODERICK COAL COMPANY.

P. O., QUICK, W. VA.

Series No. 537. *Roderick Mine*. This is a drift mine located at Roderick on the Kanawha & West Virginia Railroad, operating the No. 5 seam which has a thickness of four and a half feet. The roof is sandstone and is very good. The mine is developed on the double entry system, ventilation is produced by an eight-foot fan with good results. Cross-cuts are driven at the regular distances. Stoppings on the main air-way are built of substantial material. The second opening is in good condition. The mine has been idle the greater portion of the year.

G. H. P. SPRUCE, Supt.

D. D. WILLIAMS, Mine Foreman.

ACME STEAM COAL COMPANY.

P. O., QUICK, W. VA.

Series No. 538. *Acme Mine*.—This is a drift mine located on Blue Creek on the Kanawha & West Virginia Railroad, operating the No. 5 seam, which has a thickness of five feet. The roof is sandstone and is good. The mine is developed on the double entry system and ventilated by a temporary furnace. This is a new mine and little has been done in the way of development. It has been idle the greater portion of the year. G. H. P. SPRUCE, Supt. NICK RIDER, Mine Foreman.

WILLIAMS COAL COMPANY.

P. O., CHARLESTON, W. VA.

Series No. 539. *Williams Mine*.—This is a drift mine located on Blue Creek on the Kanawha and West Virginia Railroad operating the No. 5 seam of coal which has a thickness of four and half feet with a sandstone and slate roof which is generally good. The mine is developed on the double entry system and ventilated by a furnace which furnishes sufficient air for the present development. Drainage is good. This mine has only been operated about six months during the past year. They have recently installed an electric plant and electric mining machines. The second opening is in good condition. G. B. WILLIAMS, Supt. W. M. HORNSBY, Mine Foreman.

KENDALIA COAL & COKE COMPANY.

P. O., QUICK, W. VA.

Series No. 540. *Perbelkin Mine*.—This is a drift mine located on Blue Creek on the Kanawha & West Virginia Railroad, operating in the No. 5 seam, which has a thickness of four feet. The roof is sandstone and slate roof and generally good. The mine was opened early in the year, a tippie and store-house partly constructed, when the work was suddenly abandoned. No person could be found on the premises who could give any information as to why it was abandoned, or when it would be continued. No inspection or report was made.

BLACK HAWK COAL COMPANY.

P. O., CHARLESTON, W. VA.

Series No. 541. *Black Hawk Mine*.—This is a drift mine located near Snow Hill on the main line of the K. & M. R. R., operating the Coalburg seam, which has a thickness of five feet. The roof is slate and is fairly good. The mine is developed on the double entry system and ventilated by a six-foot fan. During the year the tippie, which had been con-

structed for river shipment, was re-located for railroad shipment, but only a small quantity of coal was mined, and this was for local consumption. The mine was visited and found to be idle. The information was that the mine was only operated at intervals when there was a local demand for coal. No official was found in charge of the plant, and for this reason no report was made.

CAMPBELL'S CREEK COAL COMPANY.

P. O., PUTNEY, W. VA.

Series No. 542. *Putney, Mine No. 1.*—This mine is a drift located at Putney, W. Va., thirteen miles east of Dana on the Campbell's Creek R. R., operating the No. 5 seam varying in thickness from four to five feet. The roof is slate which is generally good, and well timbered. The developments are on the double entry system ventilated by a ten-foot fan, with good results. Crosscuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in fair condition. Drainage good. Few persons are employed in this mine. A gathering motor is used for haulage. Second opening in first class condition. The law regarding rules, safety lamps, and stretchers complied with.

W. V. RENSFORD, Supt. ANDREW CALDERWOOD, Mine Foreman.

P. O., PUTNEY, W. VA.

Series No. 543. *Putney No. 4 Mine.* This mine is located at Putney, thirteen miles east of Dana on the Campbell's Creek R. R. It is a drift operating the No. 5 seam which varies in thickness from four and a half to five and a half feet. The roof is slate, which is fairly good and well timbered. Drainage fair. The mine is developed on the double entry system and ventilated by an eight-foot fan with good results. Crosscuts between entries are driven at the proper distances but neglected in a few of the rooms. Doors and stoppings in fair condition. This mine will shortly be connected with a new drift, which will give the required splits in the air-current. The second opening in good condition. Law relative to rules, safety lamps and stretchers complied with.

W. V. RENSFORD, Supt. ANDREW CALDERWOOD, Mine Foreman.

P. O., PUTNEY, W. VA.

Series No. 544. *Putney No. 3 Mine.*—This mine is located at Putney thirteen miles east of Dana on the Campbell's Creek Railroad. It is a drift, operating the No. 5 seam which varies in thickness from five and a half to six and a half feet. The roof is slate which in most parts of the mine is very good, and well timbered. The mine is developed on the double entry system and ventilated by a ten-foot Jeffrey fan which gives very good results. Crosscuts between entries and rooms

are driven at the regular distances. Stoppings on the main air-way are constructed of concrete. An overcast is used to give the required split in the air-current with check doors on room headings for the proper distribution of the air to the working faces. There is but little water to contend with; drainage good. There is sufficient moisture throughout the mine to allay the dust. Second opening in good condition. The law relative to rules, safety lamps and stretchers complied with. The Company's officials cheerfully comply with any instructions given by the Mine Department.

W. V. RENSFORD, Supt. ANDREW CALDERWOOD, Mine Foreman.

WALLACE COAL COMPANY.

P. O., BELLE, W. VA.

Series No. 545. *Belle Mine*.—This mine is located eleven miles south of Charleston on the main line of the K. & M. R. R. It is a drift, operating the Coalburg seam, which varies in thickness from three to four and a half feet. It has no regular system of development. The ventilation is by natural causes with poor results. This mine was opened some time in the fifties at which time the product was used in the manufacture of salt. After being idle for many years it was reopened by the Kanawha Block Coal Co., who constructed a very cheap tippie and incline and operated the mine for a short time only. After remaining idle for a year, the Wallace Coal Company attempted to operate the mine, but after loading a few cars, they abandoned it and left for parts unknown.

J. A. WALLACE, Supt.

ROY STONE, Mine Foreman.

QUINCY COAL COMPANY.

P. O., QUINCY, W. VA.

Series No. 546. *Quincy No. 1 Mine*.—This is a drift mine located one mile east of Dixon on a branch to the K. & M. R. R., operating in the Lewiston Seam which has a thickness of three and a half feet. The roof is slate which is good and well timbered. The mine is developed on the double entry system and ventilated by a five-foot fan which furnishes sufficient air when properly distributed to the working faces. Crosscuts between entries are driven at the proper distances but irregular in some rooms. Mine doors and stoppings in fair condition. This mine has advanced but little in development during the past year, having been idle a part of the time and only employing a few persons when in operation. The mine is damp throughout with no accumulations of dust. Second opening in fair condition. Safety lamps and stretchers on hands; no rules posted.

JOHN L. DICKINSON, Supt.

I. C. MORRIS, Mine Foreman.

P. O., QUINCY, W. VA.

Series No. 547. *Quincy No. 2 Mine*.—This is a drift mine located one miles east of Dixon on a branch to the K. & M. R. R., operating in the No. 5 Seam which varies in thickness from five and a half to six feet. The roof is slate and generally good and properly timbered. The mine is developed on the double entry system ventilated by a seven-foot fan with good results. Crosscuts between entries and rooms driven at proper distances. Mine doors and stoppings in fair condition only. A portion of the mine is very wet. System of drainage fair. The second opening in good condition. No rules posted. Safety lamp and stretchers on hand as required by law.

JOHN L. DICKINSON, Supt.

J. M. KELLEY, Mine Foreman.

SUNDAY CREEK COMPANY.

P. O., SHREWSBURY, W. VA.

Series No. 548. *Sunday Creek No. 101 Mine*.—This mine is located at Shrewsbury on the K. & M. R. R. It is a drift operating the North Coalburg Seam which has an average thickness of five and a half feet. The roof is sandstone and slate which is generally good. The mine is developed on the double entry system, ventilated by a six foot fan with good results. Crosscuts between entries and rooms driven at the regular distances. There are several openings to this mine which are used as separate intake airways which give the required splits. In sections of this mine there is a large quantity of water to contend with. System of drainage only fair. As the surface is very light and the grades very irregular it makes a proper system of drainage very expensive. Second opening in fair condition. Law regarding rules, safety lamps and stretchers complied with.

JOHN W. TAYLOR, Supt.

JAMES A. NEYLAN, Mine Foreman.

P. O., CEDAR GROVE, W. VA.

Series No. 549. *Sunday Creek No. 10½ Mine*.—This is a drift mine located one-half mile east of Cedar Grove on the Kelley's Creek R. R., operating in the Coalburg Seam which has an average thickness of five feet. The roof is slate and only fairly good but well timbered. The mine is developed on the double entry system, and ventilated by a seven-foot fan with only fair results, this being due to the improper location of the fan. Crosscuts between entries and rooms are driven at the proper distances; stoppings on main airway are constructed of concrete and overcasts built to give the required splits in the air-current. The mine is damp throughout with no accumulations of dust. A new opening has been driven to the outcrop and preparations are being made to install the fan at this point which will greatly improve the system of ventilation. Second opening in first class condition. Law relative to rules, safety lamps and stretchers complied with.

JOHN W. TAYLOR, Supt.

WILLIAM MARTIN, Mine Foreman.

P. O., MAMMOTH, W. VA.

Series No. 550. *Sunday Creek No. 105 Mine.*—This is a drift mine located at Mammoth six miles east of Cedar Grove on the Kelley's Creek R. R., operating in the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and fairly good, the mine is well timbered. The greater portion of the mine is dry, but with sufficient moisture to allay the dust in most parts. Only a few sections require watering. The mine is developed on the double entry system. The mine is ventilated by two fans, a six-foot and a ten-foot, which furnish sufficient air for the proper ventilation of the mine, as each fan has a separate intake air-way making the required splits in the air-current. Cross-cuts between entries and rooms are driven at the proper distances, with concrete stoppings on the main air-way. Second opening in good condition. Law relative to rules being posted, safety lamps and stretchers, complied with.

JOHN W. TAYLOR, Supt.

WILLIAM WELCH, Mine Foreman.

P. O., MAMMOTH, W. VA.

Series No. 551. *Sunday Creek No. 106 Mine.*—This is a drift mine located neas Mammoth on the Kelley's Creek R. R., operating in the No. 5 Seam. This mine has been in operation at no time in the year and for this reason no inspection was made.

JOHN W. TAYLOR, Supt.

P. O., MAMMOTH, W. VA.

Series No. 552. *Sunday Creek No. 108 Mine.*—This is a drift mine located near Mammoth, on the Kelly's Creek R. R., operating in the Coalburg Seam. This mine has not been in operation at any time in the past year and for this reason no inspection was made.

JOHN W. TAYLOR, Supt.

P. O., MAMMOTH, W. VA.

Series No. 553. *Sunday Creek No. 109 Mine.*—This is a drift mine located one mile west of Mammoth on the Kelley's Creek R. R., operating the No. 5 Seam which has an average thickness of five and a half feet. The roof is slate that is fairly good, and well timbered. The mine is developed on the double entry system, ventilated by a six-foot fan which is inadequate for the proper ventilation of the mine, especially as to the sanitary condition. The mine is damp throughout with no accumulation of dust in any section. Cross-cuts between entries and rooms are driven at the proper distances. Mine doors and stoppings in fair condition. Second opening meets with legal requirements and the law relating to rules, safety lamps, and stretchers is being complied with.

J. W. TAYLOR, Supt.

D. B. ROSS, Mine Foreman.

KANAWHA COUNTY.

NEW CEDAR GROVE COAL & BRICK COMPANY.

P. O., CEDAR GROVE, W. VA.

Series No. 554. *Boyd Mine*.—This is a drift mine located near Cedar Grove on the K. & M. R. R., operating the Cedar Grove Seam which has a thickness of three feet. The roof is slate and fairly good. This is a new opening near the old mine which is practically finished. As yet the development is very small, only having four working places which are ventilated by natural causes and there is not sufficient air for the proper ventilation of the mine. This mine was inspected June 21, 1909, at which time a conference was held with the Superintendent and he agreed that the mine should be closed down until such time as arrangements can be made for a suitable system of ventilation.

THOMAS BOYD, Supt.

W. M. QUICK, Mine Foreman.

KELLY'S CREEK COLLIERY COMPANY.

P. O., WARD, W. VA.

Series No. 555. *Kelly's Creek No. 1 Mine*.—This is a drift mine located at Ward, three miles east of Cedar Grove on the Kelly's Creek and North-western R. R., operating in the Coalburg Seam, varying in thickness from four to five and a half feet, with a draw slate of a dangerous character, varying in thickness from eight to fifteen inches, which generally has to be taken down to insure safety. The mine is properly timbered. Developments are on the double entry system ventilated by an eight-foot fan which furnishes sufficient air to ventilate the mine when properly distributed. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings are constructed from lumber and found to be defective in some sections. Mine doors in fair condition. The mine is practically dry but not to the extent of becoming dangerous from the accumulation of dust. Second opening in good condition. Law relative to rules, safety lamps, and stretchers, complied with. This mine has been idle the latter part of the year and nothing definite could be learned as to when it would resume operation.

H. T. SMARR, Supt.

WILLIAM MARTIN, Mine Foreman.

Series No. 556. *Kelly's Creek No. 3 Mine*.—This mine is located at Ward, three miles east of Cedar Grove on the Kelly's Creek and North-western R. R. It is a drift, operating in the Coalburg Seam which varies in thickness from four to five feet. The roof is slate and of a dangerous character in some sections, especially the draw slate which varies in thickness from eight to eighteen inches and, as a rule, is taken down to insure safety. The mine is properly timbered. Developments are on the double entry system ventilated by an 8 foot fan which furnishes sufficient air for the proper ventilation of the mine. At the time of last inspection the

ventilation was found to be somewhat deficient this being due to changes being made in the electric haulway, requiring the re-locating of some stoppings. When the work is completed the ventilation will meet with the requirements of law. The mine is practically dry, but not to the extent of being dangerous from accumulations of dust. The second opening is in good condition. Law relative to rules, safety lamps, and stretchers, complied with.

H. T. SMARR, Supt.

HARRY E. TAYLOR, Mine Foreman.

Series No. 557. *Kelly's Creek No. 3½ Mine*.—This is a drift, located at Ward on the Kelley's Creek and Northwestern R. R., and operated in connection with No. 3 Mine, operating the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and fairly good. The mine is developed on the double entry system, ventilated by an eight-foot fan which furnishes sufficient air for the proper ventilation of the mine. Cross-cuts between entries and rooms are driven at the proper distances. Stopping on the main air-way are built of stone and mortar. Doors in fair condition. Work was being pushed to make the required splits in the air-current by driving a heading a short distance to the outcrop to be used as an additional in-take airway. Second opening in first class condition. Rules posted; safety lamps and stretchers on hand as required by law. The mine is generally damp with no accumulations of dust.

H. T. SMARR, Supt.

HARRY E. TAYLOR, Mine Foreman.

Series No. 558. *Kelly's Creek No. 4 Mine*.—Located at Ward, three miles east of Cedar Grove on the Kelley's Creek and Northwestern R. R. It is a drift, operating the Cedar Grove Seam. Idle during the past year and no inspection made.

H. T. SMARR, Supt.

HUGHES CREEK COAL COMPANY.

P. O., HUGHESTON, W. VA.

Series No. 559. *Hugheston No. 2 Mine*.—This is a drift mine located at Hugheston on the K. & M. R. R. operating in the Coalburg Seam which varies in thickness from four to five feet. The roof is slate of a dangerous character, especially the draw slate which varies in thickness from eight to fifteen inches, which is generally taken down to insure safety and the working places properly timbered. The mine is developed on the double entry system, and ventilated by an eight-foot fan with good results. Cross-cuts between entries and rooms are regularly driven. Mine doors and stoppings in fair condition. The mine is practically dry. The main straight entry has been driven through the mountain and a new opening made in what is known as the Sugar Camp Hollow. The ventilation and drainage of this new opening was found to be very deficient, and the Superintendent was instructed to make the necessary improvements in the present system of ventilation to meet the requirements of

the law. Law relative to rules, safety lamps, and stretchers, complied with.

JOHN W. MOORE, Supt.

JOHN W. NUGENT, Mine Foreman.

Series No. 560. *Hugheston No. 3 Mine*.—Located at Hugheston on the K. & M. R. R. It is a drift, operating the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and of a dangerous character, especially the draw slate which varies in thickness from eight to fifteen inches and, as a rule, has to be taken down to insure safety. The miners are well supplied with timber and the working places are well timbered. Developments are on the double entry system, ventilated by a seven-foot fan which furnishes sufficient air for the proper ventilation of the mine when properly distributed. Cross-cuts between entries and rooms are driven at the proper distances. Mine doors and stoppings in need of repair. Drainage fair. Second opening in good condition. Law in regard to rules, safety lamps, and stretchers, complied with.

J. W. MOORE, Supt.

J. W. RHODES, Mine Foreman.

CANNELTON COAL COMPANY.

P. O., CANNELTON, W. VA.

Series No. 561. *Cannelton No. 2 Mine*.—This mine is located on Smithers Creek, one mile east of Cannelton on a branch line to the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam which varies in thickness from five and a half to eight feet. The roof is slate and of excellent quality, requiring but little timber to insure safety. The mine is developed on the double entry system, ventilated by a twelve-foot Capell fan with good results. Cross-cuts between entries and rooms are driven at the proper distances. The mine is equipped with automatic mine doors. The stoppings are constructed of lumber and in fair condition. While the working places are practically dry there is sufficient moisture to allay the dust and keep the mine in safe condition. Overcasts have been constructed to give the required splits in the air current. Second opening in first class condition. Law relative to rules, safety lamps and stretchers complied with. The management endeavor to comply with the Mining Law and all instructions issued by the Mine Department.

LANGDON LEA, Supt.

NEIL McCAFFERTY, Mine Foreman.

THE MARMET COAL COMPANY.

P. O., MONARCH, W. VA.

Series No. 562. *Monarch No. 1 Mine*.—Located at Monarch, on the K. & M. R. R. It is a drift, operating in the Cedar Grove Seam which has a thickness of three and a half feet. Developments are on the double entry system, ventilated by a seven-foot fan with only fair results, owing to the great distance the air has to travel and the return air-way being

partially closed. The system of ventilation is being improved by the construction of concrete stoppings on the main air-way and the placing of check doors on the room headings that the air-current may be properly distributed to the working faces of the rooms. Crosscuts between entries and rooms are driven at the proper distances. Mine doors in fair condition. Defective stoppings are being replaced by concrete. Refuge holes are maintained at the proper distances on the motor haulway. A great portion of the mine is dry, but not to the extent of being dangerous from dust. Second opening in fair condition. The law relative to rules, safety lamps and stretchers, is complied with.

W. H. MORRIS, Supt.

C. W. KING, Mine Foreman.

Series No. 563. *Monarch No. 2 Mine*.—This mine is located at Monarch. It is a drift, operating in the Cedar Grove Seam which has a thickness of three feet. The roof is slate and fairly good. This mine is operated in connection with Mine No. 1 and developed on the double entry system. It is ventilated by a seven-foot fan with good results. Crosscuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. The greater part of the mine is dry, but there are no dangerous accumulations of dust. The second opening is in fair condition. The law regarding rules, safety lamps, and stretchers, complied with.

W. H. MORRIS, Supt.

C. W. KING, Mine Foreman.

FAYETTE COUNTY.

SUNDAY CREEK COMPANY.

P. O., CARBONDALE, W. VA.

Series No. 564. *Sunday Creek No. 111*.—This is a drift mine located at Carbondale on a branch of the K. & M., one-half mile east of Smithers, operating in the No. 2 Gas Seam which has a thickness of five and a half feet. The roof is slate and of excellent quality, requiring the use of but little timber to insure safety. Developments are on the double entry system. There are two separate openings to this mine, each of which is ventilated by a six-foot fan. The fan at the No. 1 drift was formerly located in the mine at a distance of about thirteen hundred feet, at which point, on the night of February 9, 1909, the mine was found to be on fire, which was probably due to a short circuit, or a defective condition of the electric motor operating the fan. When discovered, the fire had made considerable headway, and it required a large force of men, several days, to construct concrete stoppings before the fire could be controlled. This incident demonstrates conclusively that it is not good mining practice to locate a fan inside of a dry, dusty mine. After the fire was under control, a fan was installed at the outside of this drift which eliminates the danger of a mine fire from this source. Cross-cuts between entries and rooms are driven at the proper distances, with concrete stoppings on the main air-way and overcasts to give the required splits in the air-current.

The second opening in first class condition. The law relative to rules, safety lamps and stretchers, complied with. The mine is practically dry, but all accumulations of dust are properly watered by a water car equipped with an electric pump and hose especially constructed for this purpose.

W. F. MANDT, Supt.

C. E. THRUSH, Mine Foreman.

Series No. 565. *Sunday Creek No. 112 Mine*.—Located one mile east of Smithers on a branch of the K. & M. R. R. It is a drift operating in the No. 2 Gas Seam, varying in thickness from four to five feet. The roof is slate and of excellent quality, requiring the use of but little timber to insure safety. The mine is developed on the double and triple entry system, ventilated by a ten-foot fan with fair results. Cross-cuts between entries and rooms are driven at the regular distances with concrete stoppings on the main air-ways and overcasts to give the required splits in the air-current. The greater part of the mine is damp, creating sufficient moisture to allay the dust. The second opening in first class condition. The law relative to rules, safety lamps, and stretchers is complied with.

W. F. MANDT, Supt.

LEE JENKINS, Mine Foreman.

P. O., LONGACRE, W. VA.

Series No. 566. *Sunday Creek No. 114*.—This mine is located at Longacre on the main line of the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam varying in thickness from four to five and a half feet. The roof is slate and of an excellent quality, requiring but little timbering to insure safety. Developments are on the double entry system. Ventilation is produced by a seven-foot fan with fair results. Cross-cuts between entries and rooms are driven at the regular distances. Doors and stoppings in fair condition. The mine is dry throughout, and in some sections must be watered to allay the dust. But few persons are employed in this mine at any time—practically no developments during the year. The main straight entry has been driven through the mountain and is used as an electric haulway for Mine No. 114 X.

W. F. MANDT, Supt.

JOHN DUFOR, Mine Foreman.

Series No. 567. *Sunday Creek No. 114X*.—This is a drift mine located at Longacre and operated in connection with mine No. 114, operating in the No. 2 Gas Seam which has a thickness of five feet. The roof is slate and of excellent quality, requiring but little timber to be used to insure safety. The mine is developed on the double entry system and ventilated by a seven-foot fan which gives very good results. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings on the main airway are built of concrete. Overcasts are constructed for the purpose of making the required splits of the air current. This mine is generally damp—creating sufficient moisture to allay the dust. The second opening in good condition. Law relative to rules, safety lamps and stretchers is complied with.

W. F. MANDT, Supt.

JOHN DUFOR, Mine Foreman.

P. O., HAREWOOD, W. VA.

Series No. 568. *Sunday Creek Mine No. 115 Mine.*—Located at Harewood on the main line of the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam with an average thickness of five and a half feet. The roof is slate and excellent, requiring but little timbering to insure safety. The mine is developed on the double entry system, ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances with a system of overcasts, concrete stoppings, and check doors to give the required splits and proper distribution of the air. The mine is practically dry, but is kept properly watered in dusty sections by means of a water car equipped with an electric pump and hose, making the general condition throughout this mine very good. The second opening is in good condition. The law relative to rules, safety lamps, and stretchers, is complied with. The officials of the Sunday Creek Company show a willingness to comply with the law or with any instructions issued by the Mine Department.

W. F. MANDT, Supt.

J. R. FLEEMAN, Mine Foreman.

COLUMBUS IRON & STEEL COMPANY.

P. O., MARTING, W. VA.

Series No. 569. *Columbus Mine.*—Located at Marting, four miles east of Smithers on a branch of the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam which has a thickness of five and a half feet. The roof is slate of an excellent quality, requiring but little timbering to insure safety. Developments are on the double entry system. Two fans, a seven-foot and an eight-foot, furnish sufficient air for the thorough ventilation of the mine. Cross-cuts between entries and rooms are driven at the proper distances. Practically all of the stoppings are constructed of stone and mortar. The required splits in the air-current are obtained by overcasts making a good system of ventilation. The greater portion of the mine is dry, a pipe line and hose being used to water the dusty sections, placing this mine in splendid condition. The law relative to the second opening, rules, safety lamps and stretchers is fully complied with, as the management endeavor to comply with the Mining Law or any instructions issued by the Department of Mines.

J. H. FERGUSON, Supt.

G. E. SANFORD, Mine Foreman.

KANAWHA GAS COAL COMPANY.

P. O., SMITHERS, W. VA.

Series No. 570. *Kanawha Gas Mine.*—This is a drift mine located at Smithers on the K. & M. R. R., operating in the No. 2 Gas Seam which has a thickness of five and a half feet. The roof is of slate and is excellent, requiring but little timbering to insure safety. This mine was developed on the double entry system but for the past year has been working on the retreat, principally drawing pillars. This mine is ventilated by a fan

located at the Oakland Mine. At times the ventilation is deficient in some parts of the mine owing to the heavy falls of slate, but this is usually changed in the course of a few days by making the necessary change in the connection with the Oakland Mine. The greater part of the mine is dry requiring watering to allay the dust. The second opening is in good condition. The Mining Law relative to rules, safety lamps, and stretchers is fully complied with.

T. A. BARTLAM, Supt.

SAMUEL MITCHELL, Mine Foreman.

W. R. JOHNSON & COMPANY.

P. O., LONGACRE, W. VA.

No. 571. *Oakland Mine*.—This is a drift mine located at Oakland on the main line of the K. & M. R. R., operating the No. 2 Gas Seam which varies in thickness from four and a half to five and a half feet. It is developed on the double entry system, ventilation is produced by a ten-foot fan which furnishes sufficient air if properly distributed. Ventilation was found to be deficient in some sections due to the defective stoppings. No concrete stoppings have been built in any section of this mine as the principal work is drawing pillars. The roof is generally good and the mine well timbered. A greater portion of the mine is dry, requiring watering of dusty sections. Powder and oil law is well observed. Second opening in good condition. Rules are posted; safety lamps and stretchers on hand.

T. A. BARTLAM, Supt.

BEN HILL, Mine Foreman.

KANAWHA GAS COAL COMPANY.

P. O., SMITHERS, W. VA.

Series No. 572. *Eagle No. 1 Mine*.—Located at Smithers on the main line of the K. & M. R. R. It is a drift, operating the No. 1 Eagle Seam which has a thickness of four feet. The roof is slate and generally good. Developments are on the double entry system, ventilated by a six-foot fan, which gives good results. Cross-cuts between entries and rooms are driven at the regular distances; stoppings in fair condition. Drainage only fair. The second opening fails to meet the requirements of the law. This mine has been idle a greater part of the time during the past year, at no time employing more than fifteen persons. A heading was being driven to the outcrop to improve the system of drainage and to be used as a second opening. Rules are posted; safety lamps and stretchers kept on hand.

T. A. BARTLAM, Supt.

SAMUEL MITCHELL, Mine Foreman.

BOOMER COAL & COKE COMPANY.

P. O., BOOMER, W. VA.

Series No. 573. *Boomer No. 1 Mine*.—This is a drift mine located near Boomer on a branch of the K. & M. R. R., operating the No. 2 Gas Seam

which has a thickness of five and a half feet. It has an excellent slate roof that requires but little timbering. Developments on the double entry system, ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings on the main air-way are constructed of concrete. The splits in the air-current are regulated by overcasts giving a good system of ventilation. The mine is practically dry but has a pipe line and hose for the purpose of watering any accumulations of dust. The law relative to powder and oil is well observed, as the management endeavors to comply with the law or any instructions from the Mine Department for the safety of their employes. The second opening is in good condition. Rules are posted at the mine. Safety lamps and stretchers kept on hand.

W. M. GILLIE, Supt.

HENRY DEEM, Mine Foreman.

Series No. 574. *Boomer No. 2 South Mine.*—This is a drift mine located one mile east of Boomer on a branch of the K. & M. R. R. operating the No. 1 Eagle Seam which varies in thickness from five and a half to six ft. The roof is of slate and in some sections is bad, but these places are given proper attention and are carefully timbered. Developments are on the double entry system ventilated by a twenty-foot fan. Cross-cuts between entries and rooms are driven at regular distances. Stoppings on the main air-way are built of stone and mortar. The splits in the air-current are regulated by overcasts making a good system of ventilation. Drainage good. Refuge holes are properly maintained on the motor haulways. This mine is generally damp with no accumulations of dust. Powder and oil law well observed. Second opening in good condition. Rules are posted at the mine. Safety lamps and stretchers kept on hand.

W. M. GILLIE, Supt.

CHARLES DUNCAN, Mine Foreman.

Series No. 575. *Boomer Mine No. 2 North.*—This is a drift mine located one mile east of Boomer on a branch of the K. & M. R. R., operating the No. 1 Eagle Seam which varies in thickness from five and a half to six feet. The roof is slate and in some sections is bad, but is given careful attention and is properly timbered. The developments are on the double entry system ventilated by a twenty-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances. Stoppings on the main air-way are built of stone and mortar. Overcasts are constructed to make the necessary splits in the air-current. Drainage good. The mine is generally damp with no accumulations of dust. Powder and oil law well observed. The second opening in good condition. Refuge holes are well maintained on the motor haulways. Rules are posted. Safety lamps and stretchers kept on hand.

W. M. GILLIE, Supt.

BUD HAZLETT, Mine Foreman.

Series No. 576. *Boomer No. 3 Mine.*—This is a drift mine located one mile east of Boomer on a branch of the K. & M. R. R., operating the No. 2 Gas Seam which has a thickness of five and a half feet. Developed on the double entry system and ventilated by means of an eight-foot fan which furnishes sufficient air to properly ventilate the mine. Cross-cuts be-

tween entries and rooms are driven at the proper distances, with concrete stoppings on the main air-way. The required splits in the air-currents are obtained by means of overcasts making a good system of ventilation. The greater part of the mine has an excellent roof that requires but little timbering to insure safety. A large portion of the mine is dry and a system of pipe-line and hose is used for watering the dry dusty sections. The law relative to powder and oil is strictly enforced. Second opening in good condition. This mine is in first-class condition. Rules are posted. Safety lamps and stretchers on hand.

W. M. GILLIE, Supt.

JOHN ELSWICK, Mine Foreman.

CLAY COUNTY.

DORFEE COAL & MINING COMPANY.

P. O., DORFEE, W. VA.

Series No. 578. *Elk Manor Mine*.—Located at Dorfee, on the main line of the Coal & Coke R. R. It is a drift, operating in the Winifrede Seam, varying in thickness from four and a half to five feet. The roof is slate and sandstone which is generally good throughout the mine. The developments are on the double entry system ventilated by an eight-foot fan which furnishes sufficient air for the proper ventilation of the mine. Cross-cuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in fair condition. Drainage good. Second opening in good condition. The law relative to rules, safety lamps and stretchers complied with. Owing to the depression in the coal business this mine has not been operated to its full capacity, having been idle a considerable part of the time.

HENRY BROOKE, Supt.

T. L. PUGH, Mine Foreman.

ELK RIVER COAL & LUMBER COMPANY.

P. O., CLAY, W. VA.

Series No. 579. *Dundon No. 1 Mine*.—This mine is located near Clay on the main line of the Coal & Coke R. R. It is a drift, operating the Coalburg Seam, varying in thickness from four to five feet, with slate and sandstone roof which is generally good and well timbered. The mine is developed on the double entry system, ventilated by an eight-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances; doors and stoppings in fair condition. The second opening is in good condition. The law, relative to rules, safety lamps, and stretchers complied with. During the year an electric plant and mining machines were installed at this mine.

A. C. FINLEY, Supt.

DAVID STODDARD, Mine Foreman.

BRAXTON COUNTY.

P. O., COPEX, W. VA.

Series No. 580. *Copen No. 11 Mine*.—Located at Copen on the main line of the Coal & Coke R. R. It is a drift, operating in the Pittsburg Seam varying in thickness from four to seven feet. The roof is slate and of a dangerous character, requiring the use of a large amount of timber to insure safety. As a rule the working places were well timbered. Developments are on the double entry system, ventilated by a furnace with fair results for the number of persons employed. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. The second opening meets with the requirements of the law. Rules are posted; safety lamps and stretchers on hand.

R. D. EDWARDS, Supt.

WILLIAM MARTIN, Mine Foreman.

DAVIS COLLIERY COMPANY.

P. O., BOWER, W. VA.

Series No. 581. *Bower No. 10 Mine*.—This is a drift mine located at Bower, on the Coal & Coke R. R., operating in the Pittsburg Seam varying in thickness from four to seven feet with a slate roof of a dangerous character requiring the use of a great deal of timber to insure safety. The management gives close attention to the timbering, and as a rule the working places are properly timbered. The mine is developed on the double entry system. Cross-cuts between entries and rooms are driven at the proper distances. During the year a twelve-foot fan was installed and as there are several openings to this mine that can be used as in-take air-ways, this makes a great improvement over the old system of ventilating by temporary furnaces. No mining machines are used at this mine, only pick miners being employed, and the coal is properly mined. The second opening is in good condition. The law regarding rules, safety lamps, and stretchers complied with.

R. D. EDWARDS, Supt.

D. D. EDWARDS, Mine Foreman.

GILMER COUNTY.

COSMOPOLITAN COAL & COKE COMPANY.

P. O., EMMERT, W. VA.

Series No. 582. *Gilmer No. 1 Mine*.—This is a drift mine, located at Gilmer on the Coal & Coke R. R., operating in the Pittsburg Seam varying in thickness from five to eight feet. The roof is slate and of a dangerous character requiring a great deal of timber to be used to insure safety. The miners are well supplied with timber, and as a rule, the working places are well timbered. The mine is developed on the double entry system, ventilated by a temporary furnace with fair results, there being

only a few persons employed. Cross-cuts between entries and rooms driven at the proper distances. Mine doors and stoppings in good condition. System of drainage only fair. The second opening in good condition. This mine has not been developed to any great extent during the past year, having been idle a greater portion of the time. Law relative to rules, safety lamps and stretchers complied with.

W. H. MARTIN, Supt.

JOSEPH CHADWICK, Mine Foreman.

SIXTH DISTRICT.

GENERAL SUMMARY OF THE SIXTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Kana. (prt)	66	14	439	1,372	340	715	2,866	412	-----	442	3,308	2,221,868	-----
Boone -----	4	--	16	-----	-----	4	20	3	-----	3	23	3,451	-----
RT'gh (prt)	1	1	8	101	14	39	162	34	-----	34	196	166,312	-----
Totals..	71	15	463	1,473	354	758	3,048	479	-----	479	3,527	2,391,631	-----

OFFICE OF THE SIXTH DISTRICT MINE INSPECTOR.

Chelyan, W. Va., June 30, 1909.

MR. JOHN LAING.

Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—In compliance with the mining law I herewith submit to you my annual report as Inspector of the Sixth Mining District of West Virginia for the year ending June 30th, 1909.

During the year I made 181 regular inspections and 32 extra visits to various mines in this district, and also spent some time on joint inspections in the 8th, 10th and 11th districts.

Five fans were installed and four more are on the ground and will be put to work in the near future.

Four new mines in this district began shipping coal during the year, two in Kanawha county. Raccoon Splint mine and Chelyan Fuel Station. Two in Boone county. No. 1 mine, of the Coal River Company, and Ramage mine of the Spruce River Coal Company.

Eight persons were prosecuted in this district during the year for violating the mining laws.

There has been some improvement made in the sanitary conditions as well as the general safety of the mines in this district, but I am very sorry to report that there were fourteen fatal and forty-two non-fatal accidents in this district within the past year, and I do know this num-

ber is too large and can be reduced if the miner as well as the company officials will use more judgment, or in other words, if they will attend more strictly to their own duties, and when the coal or roof is loose see that it is made safe before they go or permit any one else to venture under it. It is almost impossible for the inspector to see that all places are made safe by placing timber where it is needed for right at the working faces are where the greatest number of men lose their lives. According to section 15 of the Mining Law it is the mine foreman's duty to visit each working place every alternate day and see that they are safe, and it should also be the duty of the superintendent or manager to see that this mine foreman is not over-burdened with work to hinder him from performing this duty.

At present there is no law in regard to electric wires in coal mines, and a large number of the operators are imposing on the liberties they enjoy along this line, which if continued will result in drastic legislation. It has been proven that coal dust is explosive and that the operator or officials do neglect to keep all parts of the mine watered so as to allay dust, and that the miners do sometimes use very poor judgment in placing black powder, and with these facts at hand, I can not see why the dangers of mine explosions would not be lessened by either the use of safety powder, shot firers or shot inspectors.

In conclusion I wish to say that I am pleased with the progress that has been made towards bettering the conditions in the mines in this district during the year, and I wish to thank both company officials and miners for the courteous treatment received from them during the year. I also wish to thank you for the kind treatment and assistance received.

Very respectfully submitted,

BONNER H. HILL,

Inspector Sixth District.

CONDITION OF THE MINES IN THE SIXTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 613 indicates the Sixth district and number 13 mine.

KANAWHA COUNTY.

PAINT CREEK COLLIERIES COMPANY.

Series No. 601. *Reynolds Mine.*—This mine is located twenty-two miles from St. Albans on the Kanawha Central R. R., and Brier Creek, a tributary of Coal River. It is a drift opening operating the Black Band coal on the double entry system.

The ventilation produced by an eight foot Thayer fan is good. In some parts of the mine the roof is not good, but timbering is well looked

after. A larger amount of water is liberated in some parts of the mine and drainage is only fair. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated April 20th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 550 tons per day. This mine was reported last year as Reynolds Mine No. 601 of the printed report.

S. E. CHILDRESS, Supt.

WM. CLENDENIN, Mine Foreman.

C. W. ROGERS, Gen. Mgr.

OLCOTT COAL & IRON COMPANY.

Series No. 602. *No. 2 Mine.*—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band coal on the double entry system. The ventilation produced by two seven-foot Thayer fans is good. In some parts of the mine the roof is bad but timbering is well looked after. Drainage is good except in one drift where some water is liberated. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine, dated Dec. 31, 1908, has been furnished this office. Owing to the depression in business this mine was closed during March, for an indefinite period. With the present mine development and full force of men this mine is capable of producing 540 tons per day. This mine was reported last year as Mine No. 2, No. 602 of the printed report.

F. H. PALMER, Supt.

GEORGE CAREY, Mine Foreman.

Series No. 603. *No. 1 Mine.*—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band Coal on the double entry system. The ventilation, produced by five seven-foot Thayer fans is good. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. Drainage and roof are good. A map showing the workings of this mine dated December 31, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 425 tons per day. This mine was reported last year as No. 1 Mine, No. 603 of the printed report.

F. H. PALMER, Supt. B. F. THORNE and GEO. CAREY, Mine Foremen.

PAINT CREEK COLLIERIES COMPANY.

Series No. 604. *Knickerbocker Mine.*—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band coal on the double entry system. The ventilation produced by four furnaces is fair. The roof in some sections of the mine is bad but timbering well looked after. Owing to

the large quantity of water liberated in some parts of the mine, drainage is not good. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated April 20, 1909, has been furnished this office. A large per cent. of the coal in this mine is shot from the solid, shot inspectors being employed by the company. With the present mine development and equipment and full force of men this mine is capable of producing 425 tons per day. This mine was reported last year as Knickerbocker Mine No. 604 of the printed report.

L. E. CHILDRESS, Supt.

WILL MILLER, Mine Foreman.

C. W. ROGERS, Gen. Mgr.

BLACK BAND COAL & COKE COMPANY.

Nos. 607-8-9-10. *Black Band Mines Nos. 1, 2, 3 and 5.*—These mines are located on Davis Creek and operate the Black Band coal, but were idle during the entire year and no inspections of them were made.

These mines were reported last year as Black Band Mines Nos. 1, 2, 3 and 5, Nos. 607-8-9-10 of the printed report.

THE MARMET COAL COMPANY.

Series No. 612. *Butler Mine.*—This mine is located on the West Virginia Southern R. R. and Lens Creek, a tributary of Kanawha River; is a drift opening operating the Winifrede Coal on the double entry system. All work in this mine consists of robbing except in one set of entries. The ventilation produced by a seven-foot Thayer fan is fair. The roof is good. Drainage fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated June 6th, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day. This mine was reported last year as Butler Mine, No. 612 of the printed report.

R. T. PRICE, Gen. Mgr.

L. L. SELBE, Mine Foreman.

J. W. STRAUGHAN, Supt.

Series No. 613. *Butler No. 5 Mine.*—This mine was located on the West Virginia Southern R. R. and Lens Creek, a tributary of Kanawha River; was a drift opening operating the No. 5 coal. For reasons unknown to the inspector this mine was abandoned during April. The tracks and all machinery being moved from the mine. This mine was reported last year as Butler No. 5 Mine, No. 613 of the printed report.

R. T. PRICE, Gen. Mgr.

JOHN W. SHEPPARD, Mine Foreman.

J. W. STRAUGHAN, Supt.

Series No. 614. *Butler No. 2 Mine.*—This mine is located on the West

Virginia Southern R. R. and Lens Creek, a tributary of Kanawha River; is a drift opening operating the Lens Creek coal on the double entry system. In some parts of the mine the roof is not good. The ventilation produced by a ten foot Thayer fan is fairly good, but timbering is fairly good. The second opening to this mine meets all the requirements of the law. This mine is very dry and in some parts is dusty, which necessitates watering to allay the dust. The coal is very thin and undercut by electric chain machines and only requires a small amount of explosives to bring the coal down. The law is fully complied with regarding rules, stretchers, safety lamp, and anemometer. For some reason unknown to the inspector this mine was indefinitely closed during the month of May. With the present mine development and equipment and full force of men this mine is capable of producing 250 tons per day. This mine was reported last year as Butler No. 2 mine, No. 614 of the printed report.

R. T. PRICE, Gen. Mgr.

J. B. GRIFFITH, Mine Foreman.

J. W. STRAUGHAN, Supt.

FRANK ELLISON, OR THE PEERLESS COAL COMPANY.

Series No. 615. *Peerless Mine*.—This mine is located at Winifrede Junction on the C. & O. R. R.; is a drift opening operating the Peerless coal on the double entry system. Owing to the size and bad condition of the air-ways the ventilation produced by a six-foot Thayer fan is only fair. Roof is good. Drainage is only fair. The law is fully complied with regarding oil, stretchers, safety lamp, and anemometer. The second opening to this mine meets all the requirements of the law. A map, showing the workings of this mine dated February 9th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 120 tons per day. This mine was reported last year as Peerless mine, No. 615 of the printed report.

A. M. WOOLRIDGE, Supt.

JAS. HEMMINGS, Mine Foreman.

WINIFREDE COAL COMPANY.

Series No. 617. *West Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is good. In the west side of the mine the roof is very bad and dangerous and in some of the working places it is almost impossible to make them safe by timbering. Drainage is fair. The second opening to this mine meets all the requirements of the law. The law is complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated March 26, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 600 tons per day. This mine was reported last year as West Mine, No. 617 of the printed report.

WM. CRICHTON, Supt.

E. E. DOBBS, Mine Foreman.

Series No. 618. *South Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by a ten foot Thayer fan has been made fairly good by replacing wood stoppings with stone laid in mortar. A split has also been put in the air by a good overcast built of stone and cement. In some parts of the mine the roof is very bad and dangerous and requires the setting of timber very close to the faces to make it safe. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated March 24, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 525 tons per day. This mine was reported last year as the South mine, No. 618 of the printed report.

WM. CRICHTON, Supt. D. W. RICHARDS, Mine Foreman.

Series No. 619. *North Machine Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by a six foot Thayer fan is fair. The work in this mine consists of robbing and in some parts of the mine the roof is bad which necessitates very careful timbering to keep the working places safe. In some parts of the mine are large bodies of water and large pillars of good coal are being lost on account of the company not providing pumps to move the water. It has been with much insisting on the part of the inspector to have the mine foreman's record book properly kept. At time of inspection of this mine the second opening did not meet the requirements of the law, but less than 20 men were employed inside and a notice was served on the company officials not to employ more than that number until it was put in a lawful condition. A map showing the workings of this mine dated March 24, 1909, has been furnished this office. With the present mine development and full force of men this mine is capable of producing 250 tons per day. This mine was reported last year as North Machine Mine No. 619 of the printed report.

WM. CRICHTON, Supt.

JOHN MORRISON, Mine Foreman.

Series No. 620. *North Pick Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by a ten and a six-foot Thayer fans, is fair. A number of wood stoppings have been replaced by more substantial ones built of stone and cement. An overcast built of stone making a split in the air current is quite an improvement to the ventilation in this mine. Roof is fair. In the workings the drainage is good but the old workings and return air-ways are flooded and the pumps are too small to keep the water out. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine is through the South Mine. A map showing the workings of this mine dated March 24, 1909, has been furnished this office. With the present mine development and

equipment and full force of men this mine is capable of producing 600 tons per day. This mine was reported last year as the North Pick Mine, No. 620 of the printed report.

WM. CRICHTON, Supt.

W. H. STUART, Mine Foreman.

DRY BRANCH COAL COMPANY.

Series No. 621. *Gas or No. 1 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Peerless coal on the double entry system. Small feeders of gas have been found in this mine but the ventilation produced by a seven-foot Thayer fan has been found sufficient to render it harmless, and keep the mine in a good sanitary condition. The roof and drainage are good. The second opening to this mine meets all the requirements of the law. The law was fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated May 15, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 140 tons per day. For some cause unknown to the inspector this mine was closed during October and it is not known when it will resume operation. This mine was reported last year as Gas or No. 1 Mine No. 621 of the printed report.

C. G. WOOD, Supt.

Series No. 622. *No. 2 Mine.*—This mine is located on the Cabin Creek Branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. The ventilation produced by a six-foot Thayer fan is good. From six to ten inches of coal is left next to the roof which protects it from the air but does not make a desirable or safe roof. The drainage is good. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A very hard slate from five to twenty inches thick is found near the center of this coal, and safety powder is used to break this slate and shoot down the coal, which performs the work better and with more safety than black powder. A map showing the workings of this mine dated January 15, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day. This mine was reported last year as Coalburg or No. 2 Mine, No. 622 of the printed report.

C. G. WOOD, Supt.

GEO. STONE, Mine Foreman.

R. M. ODELL, Asst. Mine Foreman.

Series No. 623. *No. 3 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Belmont coal on the double entry system. The ventilation produced by a seven-foot Thayer fan is fair. In some parts of the mine the roof is very bad and dangerous but timbering is fairly well looked after. This mine is dry and in some sections has a small deposit of dust which necessitates watering in the winter season to allay the dust. The second

opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometers. A map showing the workings of this mine dated January 15, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 270 tons per day.

This mine was reported last year as Belmont or No. 3 Mine, No. 623 of the printed report.

C. G. WOOD, Supt.

GEO. STONE, Mine Foreman.

COALBURG COLLIERY COMPANY.

Series No. 624. *Ronda Mine*.—This mine is located on the Cabin Creek branch of C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. The ventilation produced by a six-foot Thayer fan is good, but for the future development of this mine an over-cast and a better class of stoppings are greatly needed. In some parts of the mine the roof is bad but timbering is well looked after. Drainage is good. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated January 20, 1909, has been furnished this office. With the present mine development and equipment and full force of men, this mine is capable of producing 600 tons per day.

This mine was reported last year as Ronda Mine, No. 624 of the printed report.

D. S. HASTINGS, Supt.

C. F. SLACK, Mine Foreman.

WYATT COAL COMPANY.

Series No. 625. *North Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. The ventilation produced by a ten-foot Crawford & McCrimmon fan was good, but during October, 1908, the fan house was burned which destroyed the fan and it has not been replaced nor has the mine been operated since. The roof is fair. Drainage good. A map showing the workings of this mine dated November 12, 1908, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 125 tons per day. This mine was reported last year as North Mine No. 625 of the printed report.

J. S. MILLER, Supt.

WYATT COAL COMPANY.

Series No. 626. *South Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift opening operating the Coalburg Coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair. The roof is good. Drainage fair.

The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety-lamps and anemometer. A map showing the workings of this mine dated May 20, 1909 has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 575 tons per day. This mine was reported last year as South mine No. 626 of the printed report.

J. S. MILLER, Supt.

JOHN PETTRY, Mine Foreman.

PERSINGER COAL COMPANY.

Series No. 627. *Wilton Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Cedar Grove Coal on the double entry system. The ventilation, produced by a fan, is fair. The roof is good. Drainage fair. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. The second opening to this mine is a door beside the fan, but an additional opening is now being made and twenty men are not employed inside the mine. A map showing the workings of this mine dated July 1st, 1908, has been furnished this office.

With the present mine development and full force of men this mine is capable of producing 100 tons per day.

This mine was reported last year as Wilton Mine No. 627 of the printed report.

J. T. McALLISTER, Supt.

C. H. McALLISTER, Mine Foreman.

WYATT COAL COMPANY.

Series No. 628. *Oakley Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston Coal on the double entry system. The ventilation, produced by a seven-foot Thayer fan, is fairly good, and it is the intention of the management to move the fan to an opening nearer the workings, which will greatly improve the ventilation. The roof is good; Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated May 20, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Oakley mine No. 628 of the printed report.

J. S. MILLER, Supt.

E. W. GLOVER, Mine Foreman.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 629. *Davis Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston coal on the double entry system. The ventilation, produced by four and eight-foot Thayer fans, is good. Roof is good. Drainage good.

except in one haulway. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated February 24, 1909 has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Davis mine No. 629 of the printed report.

IRA F. DAVIS, Gen. Mgr.

R. E. THOMPSON, Mine Foreman.

JOHN LAING, Receiver, LA MONT MINING COMPANY.

Series No. 630. *Nos. 1 and 2 Mines.*—These mines are located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; are drift-openings operating the No. 2 Gas coal on the double entry system. The ventilation, produced by a four-foot Thayer fan, is good. Roof is good. Drainage good. Some parts of the mine are very dry and has some dust which necessitates watering to allay the dust. The coal is quite thin and does not require a large quantity of explosives to bring the coal down. The second opening to this mine is a door beside the fan, but twenty men are not employed inside the mine. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer.

A map, showing the workings of this mine dated February 1st, 1909, has been furnished this office. This practically is one mine but the operating Company called it No. 1 and 2 mines. With the present mine development and full force of men these mines are capable of producing 125 tons per day. These mines were reported last year as La Mont Nos. 1 and 2 mines No. 630 of the printed report.

PAUL L. JAMES, Supt.

W. T. GOSNAY, Mine Foreman.

G. B. COMBS, Supt.

Series No. 631. *No. 3 Mine.*—This mine is located on Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston coal on the double entry system. The ventilation, produced by a six-foot Thayer fan, is good. Roof is fair. Drainage fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as La Mont No. 3 Mine No. 631 of the printed report.

PAUL L. JAMES, Supt.

W. T. GASWAY, Mine Foreman.

G. B. COMBS, Supt.

HOLLEY AND STEPHENSON COAL & COKE COMPANY.

Series No. 632. *No. 1 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek, is a drift-opening operating

the No. 2 Gas Coal. This mine was not in operation during the past year and no inspection was made.

This mine was reported last year as No. 1 mine No. 632 of the printed report.

F. H. McCLUNG, Supt.

Series No. 633. *No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation, produced by an eight-foot Thayer fan, is good. Roof and drainage are good. Some parts of this mine are very dry and dusty which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 12, 1909, has been furnished this office. With a full force of men and present mine development and equipment this mine is capable of producing 500 tons per day.

This mine was reported last year as No. 2 mine No. 633 of the printed report.

F. H. McCLUNG, Supt.

J. M. McDONOUGH, Mine Foreman.

Series No. 634. *Coalburg Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg Coal on the double entry system. This mine has been idle during the past year and no inspection was made.

This mine was reported last year as Coalburg mine No. 634 of the printed report.

F. H. McCLUNG, Supt.

Series No. 635. *No. 5 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston Coal on the double entry system. The ventilation, produced by a seven-foot Thayer fan, is good. This mine has an entire system of overcasts, no doors being used inside the mine. Drainage is good. The roof is very bad and dangerous if the draw slate is not taken down as the coal comes out. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated January 12, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day. This mine was reported last year as No. 5 Mine No. 635 of the printed report.

F. H. McCLUNG, Supt.

D. D. HEMMINGS, Mine Foreman.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 636. *Cherokee Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventila-

tion, produced by a six-foot Thayer fan, is good. Roof is only fair. Drainage good except in No. 3 drift. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 4th, 1909 has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 375 tons per day. This mine was reported last year as Cherokee Mine No. 636 of the printed report.

H. L. FISHER, Supt.

ANDREW YECK, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 637. *Caledonia Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a furnace and eight-foot Thayer fan, is fairly good. In some parts of the mine the roof is not good and careful timbering is required to keep the working places safe. Drainage is good except in one entry. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. The second opening to this mine is a door beside the fan, which meets all the requirements of the law. A map showing the workings of this mine dated January 28, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 150 tons per day. This mine was reported last year as Caledonia Mine No. 637 of the printed report.

H. L. FISHER, Supt.

H. M. DANIELS, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 638. *Red Warrior Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair.

In some parts of the mine the roof is very bad but the timbering has been much improved during the past year. Drainage is fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 27, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Red Warrior Mine, No. 638 of the printed report.

H. L. FISHER, Supt.

JOHN W. GAY, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 639. *Buckeye Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a four-foot Thayer fan is fairly good. In some parts of the mine the roof is not good and it is necessary to take down a bad draw

slate as the coal is taken from under it. Drainage is good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 6th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 250 tons per day. This mine was reported last year as Buckeye Mine, No. 639 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

WM. COINER, Mine Foreman.

Series No. 640. *Empire Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a fan is fair. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer.

A map showing the workings of this mine dated February 16, 1909, has been furnished this office. With the present mine development and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Empire Mine, No. 640 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

S. J. COINER and J. T. BALDWIN, Mine Foremen.

IRA F. DAVIS, Gen. Mgr.

Series No. 641. *Black Tulip Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a five-foot Thayer fan is good. Roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 6th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 200 tons per day.

This mine was reported last year as Black Tulip mine, No. 641 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

FRANK SHERER, Mine Foreman.

Series No. 642. *Keystone Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Crawford and McCrimmon fan is good. In some parts of the mine the roof is bad, and along one haulway the roof has been very badly broken by a creep. The second opening to this mine meets all the requirements of the law. The law is fully complied with

regarding rules, stretchers, safety lamps and anemometer. In some parts of this mine it is very dry and dusty which necessitates watering to allay the dust. A map showing the workings of this mine dated February 12, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 500 tons per day. This mine was reported last year as Keystone Mine, No. 642 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

JOHN T. SCOTT, Mine Foreman.

Series No. 643. *Acme Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg Coal on the double entry system. This is a very old mine and the stoppings and air-ways are in bad shape, but the ventilation produced by a six-foot Thayer fan is fair. The roof is fair. Drainage good. The second opening to this mine does not meet the requirements of the law, but a new one is being made and not more than twenty men are employed inside the mine. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated December 16, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 150 tons per day. This mine was reported last year as Acme mine, No. 643 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

R. G. POFF, Mine Foreman.

Series No. 644. *Shamrock Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is good. The wooden stoppings along the main entry have been replaced with concrete and a split has been made in the air by a good overcast, which goes to show that the management of this mine is good. Drainage is good. The second opening to this mine meets all the requirements of the law. Roof is good except in one set of entries. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 19, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 850 tons per day. This mine was reported last year as Shamrock Mine, No. 644 of the printed report.

W. A. OTEY, Supt.

J. A. BRAGG, Mine Foreman

IRA F. DAVIS, Gen. Mgr.

Series No. 645. *Thistle Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is fair. The air ways as well as some of the stoppings in this mine are in bad shape. This mine is very dry

throughout and in some sections is dusty, which necessitates watering to allay the dust. The roof is good. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated February 3, 1909, has been furnished this office. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. With the present mine development and equipment and full force of men this mine is capable of producing 500 tons per day. This mine was reported last year as Thistle Mine No. 645 of the printed report.

W. A. OTEY, Supt.

T. B. FISHER, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 646. *Raccoon Gas Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is fairly good, but for the future development of this mine a better class of stoppings and an overcast are greatly needed. Roof is good except in one section where it is bad. Drainage good and in some sections it is dry, which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 2nd, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 350 tons per day. This mine was reported last year as Raccoon Mine, No. 646 of the printed report.

W. A. OTEY, Supt.

JOHN DOWER, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 647. *Rose Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a furnace is not good but a fan is on the ground and will be installed within the next few days. The roof is good. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 8th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Rose Mine No. 647 of the printed report.

W. A. OTEY, Supt.

C. E. JARNSCH and WM. HOLMES,

IRA F. DAVIS, Gen. Mgr.

Mine Foremen.

Series No. 648. *Kayford No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is good. Great improvement has been made on the stoppings in this mine during the past year and a good overcast is now under way of construction, which when completed will put

an additional split in the air. Small gas feeders are found in a part of the mine but the ventilation is sufficient to render it harmless. The roof is good. Drainage fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 8, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 700 tons per day. This mine was reported last year as Kayford Mine No. 648 of the printed report.

W. A. OTEY, Supt.

M. DARBY, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 649. *Holly Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair, but for the future development of this mine a better class of stoppings are greatly needed. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, and anemometer. A map showing the workings of this mine dated January 2, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 450 tons per day. This mine was reported last year as Holly Mine, No. 649 of the printed report.

H. L. FISHER, Supt.

M. J. FISHER, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 650. *Quarrier Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is good. For the future development of this mine a better class of stoppings are needed. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 2, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 450 tons per day. This mine was reported last year as Quarrier Mine, No. 650 of the printed report.

H. L. FISHER, Supt.

J. W. BRANHAM, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

WAKE FOREST MINING COMPANY.

Series No. 651. *Wake Forest Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a six and seven-foot fan is fairly good, but a better class of stoppings are greatly needed for the future development of this mine.

A large part of this mine is very dry and requires watering to allay the dust. In some parts of the mine the roof is very bad and requires close timbering to make it safe. The second opening meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 435 tons per day. This mine was reported last year as Wake Forest Mine, No. 651 of the printed report.

J. C. GRYMES, Supt.

JESSE GARDENER and F. W. MANDT,

Mine Foremen.

WYATT COAL COMPANY.

Series No. 652. *Berlin Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a seven-foot Thayer fan is fairly good, but for the future development of this mine a better class of stoppings and an overcast are greatly needed. The roof is fair. Drainage only fair. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated May 20, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 500 tons per day. This mine was reported last year as Berlin Mine, No. 652 of the printed report.

J. S. MILLER, Supt.

WILL MANDT, Mine Foreman.

CARBON COAL COMPANY.

Series No. 653. *North Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a seven-foot Stine fan is only fair. A larger part of the work in this mine has been robbing and the doors and stoppings are in bad repair. Roof is generally good. In some parts of the mine drainage is poor. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometers.

A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day. This mine was reported last year as North Mine, No. 653 of the printed report.

J. C. GILMORE, Supt.

C. A. PIERCE, Mine Foreman.

C. A. CABELL, Gen. Mgr.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 654. *Ruby Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a four-foot Stine fan is good. The roof is very bad and close timbering is required to make it safe. Drainage is good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 12, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day. This mine was reported last year as Ruby Mine, No. 654 of the printed report.

A. P. SHERER, Supt.

H. E. ROBERTS, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

WEST VIRGINIA COLLIERY COMPANY.

Series No. 655. *No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Stine fan is fair. Some improvement has recently been made in the ventilation by repairing the doors and stoppings. In some parts of the mine the roof is bad and requires close timbering. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 800 tons per day. This mine was reported last year as No. 1 Mine, No. 655 of the printed report.

K. D. QUARRIER, Supt.

T. A. McGARY, Mine Foreman.

C. A. CABELL, Gen. Mgr.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 656. *United Gas Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair. A larger fan is now on the ground and will be installed in the near future. The roof in this mine is very bad and dangerous if not taken down or properly timbered. The drainage is fair.

The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine

is capable of producing 750 tons per day. This mine was reported last year as United Gas Mine, No. 656 of the printed report.

A. P. SHERER, Supt.

JOHN TITTLOW, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 657. *United Splint Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a furnace is not good, but a fan is on the ground and will be installed soon as possible. The roof is very bad and dangerous if not taken down or closely timbered. Drainage is good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 14th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 275 tons per day. This mine was reported last year as United Splint Mine No. 657 of the printed report.

A. P. SHERER, Supt.

D. S. HOLMES, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

WEST VIRGINIA COLLIERY COMPANY.

Series No. 658. *No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by two furnaces and from natural causes is only fair. The roof in this mine is very bad and dangerous if not taken down or properly timbered. This mine consists of several drifts or openings and only a small number of men are employed in each. The drainage is fairly good.

The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 200 tons per day.

This mine was reported last year as No. 2 Mine, No. 658 of the printed report.

K. D. QUARRIER, Supt.

J. C. SMITH, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 659. *No. 3 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a seven-foot Stine fan, furnace and from natural causes is fairly good. The roof is good. Drainage good.

This mine consists of several drifts or openings and only a small number of men are employed in each. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished

this office. With the present mine development and equipment and full force of men this mine is capable of producing 450 tons per day. This mine was reported last year as No. 3 Mine, No. 659 of the printed report.

K. D. QUARRIER, Supt. C. L. PETTY, Mine Foreman.
C. A. CABELL, Gen. Mgr.

Series No. 660. *No. 4 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by two seven-foot Stine fans is fairly good. In some parts of the mine the roof is very bad and requires to be taken down or kept closely timbered. The drainage is not good. The second opening meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 350 tons per day. This mine was reported last year as No. 4 Mine, No. 660 of the printed report.

K. D. QUARRIER, Supt. EDWARD STANLEY, Mine Foreman.
C. A. CABELL, Gen. Mgr.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 661. *Belleclare Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by three and eight-foot Thayer fans is fair. What is known as the Old part of this mine has not been in operation during the past year. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law.

The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 11, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day.

This mine was reported last year as Belleclare Mine, No. 661 of the printed report.

A. P. SHERER, Supt. JOE FILKINS, Mine Foreman.
IRA F. DAVIS, Gen. Mgr.

CARBON COAL COMPANY.

Series No. 662. *South Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. Owing to the bad condition of the doors and stoppings the ventilation produced by three seven-foot Stine fans is only fair. I have insisted that two of the ventilating fans which are set inside the mine be moved to the outside. The roof and drainage are fair. In some parts of the mine it is very dry

which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 600 tons per day.

This mine was reported last year as South Mine, No. 662 of the printed report.

J. C. GILMOURE, Supt.

W. T. IVES, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 663. *Carbon Splint Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fairly good, but a better class of stoppings and an overcast are greatly needed for the future development of this mine. The roof is good. Drainage fairly good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 600 tons per day. This mine was reported last year as No. 5 or Splint Mine, No. 663 of the printed report.

J. C. GILMOURE, Supt.

C. V. RHODES, Mine Foreman.

C. A. CABELL, Gen. Mgr.

REPUBLIC COAL COMPANY.

Series No. 664. *No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a seven-foot Stine fan is fair, but a much better class of stoppings are greatly needed for the future development of this mine. The fan sets inside the mine and I have insisted that it be moved to the outside which the management has promised to do. The roof is very bad and requires very close timbering to make it safe. Drainage is good and in some parts of the mine it is very dry, which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as No. 1 Mine, No. 664 of the printed report.

J. C. GILMOURE, Supt.

C. A. HUGHES, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 665. *No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a seven-foot Stine fan is fairly good. The roof is good. This mine is dry throughout, which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day.

This mine was reported last year as No. 2 mine, No. 665 of the printed report.

J. C. GILMOURE, Supt.

OWEN MEADOWS, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 666. *No. 3 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a seven-foot Stine fan is fairly good. This mine is dry throughout, which necessitates watering to allay the dust. Roof is good. *

The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. The fan at this mine sets inside the mine and I have insisted that it be moved to the outside which the management has promised to do. With the present development and equipment and full force of men this mine is capable of producing 300 tons per day. This mine was reported last year as No. 3 Mine, No. 666 of the printed report.

J. C. GILMOURE, Supt.

J. K. GENTRY, Mine Foreman.

C. A. CABELL, Gen. Mgr.

CHELYAN FUEL COMPANY.

Series No. 667. *Chechyan Mine*.—This mine is located near Cabin Creek Junction, on the main line of the C. & O. R. R.; is a drift opening operating the Peerless coal. This mine supplies the C. & O. R. R. some fuel coal. It consists of two openings under cover only a short distance and the ventilation produced from natural causes is fair. This is a new mine; began putting out coal April 24, 1909, and at time of inspection was working six men inside the mine.

S. A. LEWIS, Supt.

WM. ROLLINS, Mine Foreman.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 668. *Kayford No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a slope opening operating the No. 2 Gas coal on the double entry system. This mine

was operated in connection with the Kayford No. 1 mine until a few months ago, when it began operation by a system and tippie of its own. The ventilation produced by a ten-foot Thayer fan is fairly good. Roof and drainage are good. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 8th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 350 tons per day. This mine was reported last year with the Kayford No. 1 Mine.

W. A. OTEY, Supt.

M. DARBY and P. L. ROSE, Mine Foremen.

IRA F. DAVIS, Gen. Mgr.

Series No. 669. *Raccoon Splint Mine*.—This is a new mine and located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. This mine consists of several openings and the ventilation produced by natural causes is fair, but a fan is on the ground and will be installed in the near future. This mine began shipping coal February 5th, 1909, and with the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day.

W. A. OTEY, Supt.

V. A. MILLER, Mine Foreman.

RALEIGH COUNTY.

BIG COAL COMPANY.

Series No. 670. *Dorothy Mine*.—This mine is located on the Coal River extension of the Cabin Creek R. R. and Coal River; is a drift opening operating the Coalburg coal on the double and triple entry system. The ventilation produced by a 10 ft. Jeffrey fan is good. All stoppings along the main entry and air way as well as the overcasts are built of stone and cement. The roof is good. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated May 30, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 1100 tons per day. This mine was reported last year as Dorothy Mine, No. 667 of the printed report.

CHARLES E. SANDBERG, Supt.

CHAS. E. FOSTER, Mine Foreman.

BOONE COUNTY.

COAL RIVER COMPANY.

Series No. 671. *No. 1 Mine*.—This mine is located on the Little Coal River extension of the Coal River Railroad, and Spruce Fork forty-six miles from St. Albans; is a drift opening operating the Engle coal on the triple entry system. This is a new mine; began shipping coal March 10, 1909 and is only under cover a short distance and the ventilation from

natural causes is fair and a fan is on the ground and will be installed in the near future. Roof is good. Drainage good. At time of inspection this mine was only working nine men inside the miae.

J. M. MOORE, Supt.

E. J. JENKINS, Mine Foreman.

SPRUCE RIVER COAL COMPANY.

Series No. 672. *Ramage Mine.*—This mine is located on the Little Coal River extension of the Coal River R. R., and Spruce Fork; is a drift opening operating the Eagle coal and a thin seam of cannel coal. This mine consists of four openings under cover a short distance and the ventilation produced by natural causes is fair. At time of inspection of this mine six men were employed inside the mine.

J. B. RAMAGE, Supt.

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SEVENTH DISTRICT.

GENERAL SUMMARY OF THE SEVENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYES								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Clay (prt) ..	2		25		5		30	5		5	35	4,464	
Fay'te (prt)	40	4	1,015	270	51	319	1,655	232	92	324	1,979	1,046,515	108,147
Kana. (prt)	29	4	277	571	130	256	1,224	207		207	1,431	782,705	
Nicholas	7		46	20	6	22	94	18		18	112	40,556	
Totals..	78	8	1,363	861	192	597	3,003	462	92	554	3,557	1,874,240	108,147

OFFICE OF THE SEVENTH DISTRICT MINE INSPECTOR.

Charleston, W. Va., June 30th, 1909.

MR. JOHN LAING,

Chief of Department of Mines,

Charleston, West Virginia.

SIR:—In compliance with section 2 of the Mining Laws I herewith respectfully submit to you my annual report as Inspector of the Seventh Mining District of West Virginia, for the year ending June 30th, 1909.

A record has been kept of 150 inspections having been made, and 76 special or other visits made to the mines. Included in the above number of inspections are 26 Inspections of Mines made in other Districts; the detailed report of which is omitted in the following report of the Mines, the same having been made to your office by the regular monthly reports.

The most of the special visits were made for the purpose of urging that recommendations be carried out that were made at the time of previous inspections. Many visits were made to mines when inspections could not be made on account of the mines being idle, business being very poor. Few mines operated more than half time, and many operated much less.

A number of visits were made to investigate fatal accidents, and complaints that were received. Reports have been received and forwarded to your office of 31 non-fatal and 6 fatal accidents during the fiscal year.

Nine mines in the Seventh District have remained closed and have not been operated during the year.

I am unable to report much extensive improvements having been made in the condition of the mines; owing to the very slack run, and low market conditions that has prevailed during the year, it has been most difficult to get recommendations carried out. However, the work of installing fans is now in progress at several mines.

But one prosecution was had during the year, which was for violation of the oil regulations.

I regret to say that there seems to be a lack of earnestness of respect for the Mining Laws on the part of some Mine Foremen and Mine Managers, and on the part of many of the miners.

For instance:—The Miners, (for whose special benefit Mining Laws were enacted) pay little heed to the requirements of the law, and give little or no attention if the mining laws are complied with, and sometimes seem to take pleasure in violating the laws and rules of safety.

Very often in the absence of the Mine Foreman or Superintendent the complaints of the miners are profuse and often groundless; while in the presence of the Mine Foreman or Superintendent the same miners will contradict and deny conditions which are in violation of the law.

Notwithstanding that the law requires that the air-current shall be turned into the rooms few Mine Foremen will use brattice cloth or checks on the entries in order to ventilate the rooms unless urged to do so. The closing of rear break-throughs between rooms, in order to conduct the air-current through the last break-through nearest the face is seldom given attention. Many mine foremen seem to lack energy to establish discipline among the employes and give no attention to the enforcement of rules for safety.

There is much lack of interest on the part of Superintendents and General Managers to see that subordinates perform their duty in accordance with the Mining Laws. This lack of interest not only leads to serious neglect of duty, impairing the safety of the mine, but destroys economy of operation and results in serious depreciation of property.

It is to be most regreted that some Superintendents and General Managers have a very mistaken understanding as to the duties of a District Mine Inspector. In place of freely recognizing that the Mining Laws exact specific and sworn duties on the part of an Inspector and that an Inspector has no choice but to do his duty or be guilty of violation of the Mining Laws himself, some Mine Managers expect the Mine Inspector to accept their explanations as to why unfortunate and bad conditions exist, and that he refrains from urging compliance of the laws. I have found it impossible to avoid having such Mine Managers take offence when compliance of the laws were urged.

It was my unpleasant experience to have one General Manager express his disapproval in the following language: "That I did not do right by putting the conditions of his mines up to the Chief of the Department of Mines, and thereby forcing the expense of complying with the Law." The foregoing expression clearly indicates that it was expected that the

District Inspector should have made a false report to the Chief of the Department of Mines.

The greatest difficulty encountered during the year which so far I have been unable to have remedied, is the dangerous blasting of coal and "shooting off the solid". All the necessary recommendations have been made and the orders of the Chief of the Department of Mines have been fully urged without much or any progress being made to have the same adopted.

Against the use of "safety" explosives the miners complain that the cost is prohibitive and the Mine Managers claim, that they are unable to find a "safety" explosive that proves satisfactory in the blasting of their coal.

As to the efficiency of our present Mining Laws I have not material recommendations to make other than is contained in my last annual report.

I think the greatest good could be accomplished by the members of the Mining Department and all persons engaged in the mining industry getting together and seeking to have the same understanding of the laws to co-operate in the interpretation and compliance of the laws.

I would urge consideration of the number of accidents which have occurred on incline planes. I believe it would be unwise and impracticable to seek to prohibit the riding, especially on the car going up the planes. In the absence of legislation bearing direct on this matter I would urge that the Department adopt some uniform regulation as to incline planes.

In conclusion I wish to express my satisfaction at the progress made during the year, and for the courteous treatment and support received at your hands.

Very respectfully yours,

WILLIAM WARNER,

Mine Inspector of Seventh District.

CONDITION OF THE MINES IN THE SEVENTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 714 indicates the seventh district and number 14 mine.

KANAWHA COUNTY.

COALBURG-KANAWHA COAL COMPANY.

P. O., COALBURG, W. VA.

Series No. 702. *A-Mine*.—This mine is located at Coalburg on the C. & O. R. R., operating in the Coalburg seam. Is ventilated by a six-foot Thayer exhaust fan. At the time of the last inspection the ventilation was not sufficient, at the head of the entries, on account of the air-courses being closed in with falls of roof. New air-courses were being driven and

would soon be completed. It was recommended that clay be used exclusively for tamping and other necessary recommendations were made.

The mining laws in all other respects were being quite well observed. This mine was reported last year as No. 4 Mine.

B-Mine.—This mine was opened since the writing of the last annual report and operates the Belmont seam. The ventilation was dependent upon natural forces, a second opening had not yet been acquired, but connections were being driven to No. 1 opening.

The ventilation was deficient in No. 1 opening, and places were being worked in advance of the distance required by law.

It was recommended that artificial means of ventilation be adopted at once.

J. A. WILLIAMS, Supt.

JOHN M. BERGRAFF, Mine Foreman.

SOUTHWESTERN SPLINT FUEL COMPANY.

P. O., HANSFORD, W. VA.

Series No. 705. *Black Cat Mine.*—This mine is located at Crown Hill on the C. & O. R. R. is a drift and incline mine operating the Coalburg seam.

The ventilation is produced by a 7 foot Thayer fan and was found to be very good. The drainage was not good on account of having struck a body of water when making connection with the old mine.

The air current was not turned into the rooms as required by law. It was recommended that clay be used exclusively for tamping and all other necessary recommendations were made.

The mining laws were well observed in other respects.

A. P. BRADY, Supt.

WM. POFF, Mine Foreman.

WINIFREDE COAL COMPANY.

P. O., HANSFORD, W. VA.

Series No. 708. *New Coalburg Mine.*—This mine is located at Crown Hill on the C. & O. R. R., operating the Coalburg seam. It is a drift and incline mine.

The ventilation is produced by an 8-ft. fan and was found to be very good in volume on the entries, but was not turned into the rooms as required by law.

Break-throughs were neglected and not made at the required distance as required by law. It was found that some blasting off the "solid" was being practiced. More than sixty men were being employed inside the mine without a split in the air-current.

The management was urged by special letter to have an overcast completed at once, and other necessary recommendations were made, all of which the management promised to have carried out at once.

WM. CRICHTON, Supt.

C. B. STEWART, Mine Foreman.

EQUITABLE COAL COMPANY.

P. O., HANSFORD, W. VA.

Series No. 709. *No. 8 Coalburg Mine.*—Located at Crown Hill on the C. & O. R. R., operating the Coalburg seam. The ventilation is produced by an 8 ft. fan, which produced sufficient ventilation while in motion. Its operation was very irregular on account of lack of electric power.

Break-throughs were somewhat neglected.

The mining laws in other respects were better observed than at previous inspections.

This mine was inspected but once during the year on account of it having been closed down subsequently and is not yet in operation.

E. L. BRUER, Supt.

JOHN P. HUDNALL, Mine Foreman.

PAINT CREEK COLLIERIES COMPANY.

P. O., MUCKLOW, W. VA.

Series No. 710. *Scranton Mine.*—Is located at Mucklow on the Paint Creek branch of the C. & O. R. R. It is a drift incline mine, operating the Coalburg seam.

The ventilation is produced by a sixteen ft. fan, and was found to be good. It was recommended that clay be used exclusively for tamping. The mining laws in all other respects were well observed. The management was considered very efficient..

JOHN A. GREENE, Supt.

JOHN J. COX, Mine Foreman.

Series No. 711. *Paint Creek Mine.*—Is located at Mucklow on the Paint Creek branch of the C. & O. R. R. It is a drift and incline mine operating the Coalburg seam. The ventilation is produced by a 10 ft. fan, and was found to be very good. Some very dangerous shooting was being practiced. The coal being very high, after being cut with chain machines, requires an excessive amount of powder to shoot down a "breaking" shot.

It was urged that the coal be double shot for a "breaking" shot or that the regulations of the Mine Department regarding solid shooting be adopted.

The mining laws in all other respects were being well observed.

JOHN A. GREENE, Supt.

F. M. BURKE, Mine Foreman.

PAINT CREEK COLLIERIES COMPANY.

P. O., WACOMAH, W. VA.

Series No. 712. *Wacomah Mine.*—Is located at Wacomah on the Paint Creek branch of the C. & O. R. R. It is a drift and incline mine, operating the Coalburg seam.

The ventilation is produced by an 8 ft. fan, and was found to be very good. The mining laws were being well observed in all other respects.

It was recommended that clay be used exclusively for tamping.

JOHN A. GREENE, Supt.

HARRY JOHNSON, Mine Foreman.

Series No. 713. *Banner No. 1 Mine*.—It is a drift and incline mine, located at Wacomah on the Paint Creek branch of the C. & O. R. R.

The ventilation is produced by an 8 ft. fan and was found to be very good. A portion of the mine was found to be exceedingly dusty and dry. It was urged that the dust be removed at once, and that the dry portions of the mine be kept well watered.

It was recommended that the trolley wire be protected at crossings. In other respects the mining laws were being well observed.

JOHN A. GREENE, Supt.

D. F. WATERS, Mine Foreman.

Series No. 714. *Banner No. 2 Mine*.—Is a drift and incline mine, located at Wacomah on the Paint Creek branch of the C. & O. R. R. It is a drift incline mine, operating the Crown Hill or Lewiston seam of coal.

The ventilation is produced by a furnace and was found to be very deficient. The management was urged to install fan ventilation.

In all the pick mined places the blasting was done by a shot-firer after the miners have left the mine.

JOHN A. GREENE, Supt.

D. F. WATERS, Mine Foreman.

STANDARD SPLINT & GAS COAL COMPANY.

P. O., STANDARD, W. VA.

Series No. 715. *Standard Mine*.—Is a drift and incline mine. Located at Standard, on Paint Creek branch of the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by a 10 ft. fan, and was found to be very good and well distributed through the rooms.

Former recommendations to double shoot the coal was being observed.

The mining laws in all other respects are being well observed, and the management is considered very efficient.

It was recommended that clay be used exclusively for tamping.

WALTER WOOD, Gen. Mgr.

ED. FOSTER, Mine Foreman.

PAINT CREEK COLLIERIES COMPANY.

P. O., DETROIT, W. VA.

Series No. 716. *Detroit Mine*.—Is a drift and incline mine. Located at Detroit on the Paint Creek branch of the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. exhaust fan and was found to be very good. The dust is kept well sprinkled by the use of hose attached to the air line.

The mining laws are well observed. It was recommended that clay be used exclusively for tamping.

JOHN A. GREENE, Supt.

R. D. GILL, Mine Foreman.

Series No. 717. *Morton No. 1 Mine*.—Is a drift and incline mine, located at Detroit on the Paint Creek branch of the C. & O. R. R., and has the Eagle seam.

This mine has not been in operation during the fiscal year.

JOHN A. GREENE, Supt.

Series No. 718. *Morton No. 2 Mine*.—Is a drift and incline mine, located at Detroit on Paint Creek branch of the C. & O. R. R. Is a part of Morton No. 1 Mine, and has not been in operation during the year.

JOHN A. GREENE, Supt.

PAINT CREEK COLLIERIES COMPANY.

P. O., NUCKOLLS, W. VA.

Series No. 719. *Nuckolls Mine*.—Is located at Nuckolls on Paint Creek branch of the C. & O. R. R. It is a drift and incline and has the No. 2 gas seam. This mine has not been in operation during this fiscal year.

P. O., TOMSBURG W. VA.

Series No. 720. *Grose No. 1 Mine*.—Is located at Tomsburg on Paint Creek branch of the C. & O. R. R. It is a drift incline mine, operating the Eagle seam. The ventilation is produced by an 8 ft. fan, and was found to be very good. This fan was installed since writing the last annual report.

The mining laws are quite well observed in all other respects.

FRANK KERNS, Supt.

PETER BERRY, Mine Foreman.

Series No. 721. *Grose No. 2 Mine*.—Is located at Tomsburg on Paint Creek branch of C. & O. R. R. It is a drift and incline mine, operating the No. 2 gas seam.

The furnace ventilation was found to be reasonably sufficient at the time of the last inspection, as better attention is given the furnace, break-throughs and stoppings, than was found at previous inspections. This is a very dry and dusty mine, but a water line has been constructed throughout the mine, by the use of which the dust is kept well watered. It has been urged that fan ventilation be adopted. Connections have been made with another opening, and the management has given assurances that a fan will be installed at once.

FRANK KERNS, Supt.

JOHN LAMASTERS, Mine Foreman.

Series No. 722. *Greenbrier No. 2 Mine*.—Is located between Tomsburg and Greencastle on Paint Creek branch of the C. & O. R. R. It is a drift and incline mine, operating the No. 2 gas seam.

The ventilation is produced by an 8 ft. fan and is very good.

The mining laws are very well observed in every respect.

FRANK KERNS, Supt.

ED. SIMMS, Mine Foreman.

Series No. 723. *Greenbrier No. 3 Mine.*—This is a drift and incline mine, located between Tomsburg and Greencastle, on Paint Creek branch of the C. & O. R. R., operating the Winifrede seam.

The ventilation is produced by an 8 ft. fan and was found to be good. Some solid shooting (but by a shot firer) is being done.

In all other respects the mining laws are being quite well observed.

FRANK KERNS, Supt.

LEE PATRICK, Mine Foreman.

IMPERIAL COLLIERY COMPANY.

P. O., BURNWELL, W. VA.

Series No. 724. *Imperial No. 1 Mine.*—This is a drift and incline mine, located at Burnwell on Paint Creek branch of the C. & O. R. R., operating the Eagle seam. The ventilation is produced by an 8 ft. Thayer fan, and is very good in volume on the entries, but is not turned into the rooms as the laws require.

There is some bad roof, but timbering is good. In other respects the mining laws are quite well observed.

QUINN MORTON, Gen. Mgr.

L. R. HOWELL, Mine Foreman.

Series No. 725. *Imperial No. 2 Mine.*—This is a drift and incline mine, located at Burnwell on Paint Creek branch of the C. & O. R. R.

This mine has not been in operation during this fiscal year.

QUINN MORTON, Gen. Mgr.

Series No. 726. *Imperial No. 3 Mine.*—Located at Burnwell on Paint Creek branch of the C. & O. R. R. It is a drift and incline mine, operating the Eagle seam. The ventilation is produced by an 8 ft. fan, and is very good.

The mining laws are well observed in every respect.

QUINN MORTON, Supt.

H. G. HOWELL, Mine Foreman.

CHESAPEAKE MINING COMPANY.

P. O., HANDLEY, W. VA.

Series No. 727. *No. 1 Mine.*—This is a drift and incline mine, located on Lower Creek at Handley on the C. & O. R. R., operating the Kanawha seam. The ventilation is produced by a 10 ft. Thayer fan, and was found to be good. All previous recommendations have been quite well carried out. An overcast has been constructed and the air current split. Solid stoppings have been built.

JOHN CARTER, Supt.

J. F. WHITE, Mine Foreman.

Series No. 728. *No. 2 Mine.*—This mine is located at Handley on the C. & O. R. R., is a drift and incline mine, operating the No. 2 gas seam.

The ventilation is produced by a 10 ft. fan, and was found to be good. This is a new fan and was constructed according to recommendation nearer the pit-mouth. The drainage was not good inside the pit-mouth.

Shooting from the "solid" was found to be continued notwithstanding the repeated recommendations that the regulations of the Mine Department regarding the same be adopted.

In other respects the mining laws are quite well observed.

JOHN CARTER, Supt.

GEO. WALKER, Mine Foreman.

Series No. 729. *No. 3 Mine*.—Is located at Handley on the C. & O. R. R., is a drift and incline mine operating the Coalburg seam.

This mine is ventilated by an 8 ft. fan, and was found to be very good. The mining laws are quite well observed in all other respects.

JOHN CARTER, Supt.

JOHN W. FRAZIER, Mine Foreman.

MONTGOMERY COAL COMPANY.

P. O., MONTGOMERY, W. VA.

Series No. 730. *Hickory Nut Mine*.—This is a drift and incline mine, located between Handley and Montgomery on the C. & O. R. R., operating the Lewiston seam. Only natural ventilation is obtained, and was found to be deficient. But six men are employed and the management expects to abandon the mine soon.

S. H. MONTGOMERY, General Manager. S. P. JOHNSON, Mine Foreman.

Series No. 731. *Possom Hollow Mine*.—Is a drift and incline mine, located between Handley and Montgomery on the C. & O. R. R., operating the Lewiston or Kanawha seam.

The ventilation is produced by a four foot fan located on the interior of the mine; a very good volume of air was found at certain localities, but the ventilation at and near the working places was very bad on account of gross neglect in not carrying the air-current forward, stoppings being left open and break-throughs not being made where it was necessary.

A special letter was written the Company, requesting that the necessary improvements be made at once, and any further neglect would follow with a request that the mine foreman be removed.

S. H. MONTGOMERY, Gen. Mgr.

S. P. JOHNSON, Mine Foreman.

Series No. 733. *Upper Creek Mine*.—Is a drift and incline mine. Located between Handley and Montgomery on the C. & O. R. R. It is a drift mine, operating the Lewiston or Kanawha seam. The ventilation is produced by a 10 ft. fan, and was found to be good in volume on the entries; but the air-current was not turned into the rooms as the law requires.

The mine bosses' record book was not kept at the mine, although the mine boss has been requested to do so at previous inspections.

S. H. MONTGOMERY, Gen. Mgr.

S. P. JOHNSON, Mine Foreman.

MORRIS CREEK COAL COMPANY.

P. O., DONWOOD, W. VA.

Series No. 734. *Morris Creek Mine*.—Is a drift and incline mine, lo-

cated at the head of Morris Creek, on the Morris Creek branch of the C. & O. R. R., operating the Kanawha seam.

The ventilation is produced by a 10 ft. fan. The volume of ventilation was sufficient for all purposes, but was not carried forward to the working places and break-throughs were not made as the law requires.

The mine boss had not been furnished an anemometer or a record book as the law requires. The management was requested to make the necessary improvements at once.

GEO. FRAZER, Supt.

JAS. FRAZER, Mine Foreman.

FAYETTE COUNTY.

PAINT CREEK COLLIERIES COMPANY.

P. O., MAHAN, W. VA.

Series No. 735. *Hickory Camp Mine*.—This mine is a drift and incline mine, located at Mahan, on the Paint Creek branch of the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. fan, which was very good and well distributed. The mining laws are well observed in every respect and the management is considered very efficient.

FRANK KERNS, Supt.

R. F. TOWNSEND, Mine Foreman.

MECCA COAL & COKE COMPANY.

P. O., MONTGOMERY, W. VA.

Series No. 736. *Mecca No. 2 Mine*.—Is located on Morris Creek branch of the C. & O. R. R. It is a drift and operates the No. 2 gas seam.

A fan on the interior of the mine and a 10 ft. fan on the outside provides the ventilation. At the time of the last inspection the volume of ventilation was found to be quite good while the inside fan was in motion but the air current was not turned into the rooms sufficiently.

The operation of the inside fan is very unreliable on account of either a lack of power or defective wiring as at each inspection the inside fan was found to stop operation at times.

This mine has but one inlet, and no out-let. The return air is obliged to return through Edgewater mines.

The top along the main haulage road in places is extremely dangerous, timbers being broken, and in bad condition.

The necessary recommendations have been made and urged at every inspection, and much improvement has been made.

It is impracticable to arrange the ventilation according to the requirements of the law until another opening is acquired, which is being contemplated.

J. H. JACKSON, Supt.

JOHN H. TASKER, Mine Foreman.

Series No. 737. *Old Mecca No. 5 Mine*.—Is a drift and incline mine located at Donwood, on the Morris Creek branch of the C. & O. R. R.; and

operates the splint No. 5 seam. This mine depends upon natural ventilation, which is not sufficient. The drainage is very bad.

The necessary recommendations have been made at the time of each inspection, and said recommendations have been urged without any success in having the same complied with.

WM. CARVER, Supt.

Series No. 737a. *New Mecca No. 5 Mine*.—Is a drift and incline mine, located at Donwood, on Morris Creek branch of the C. & O. R. R., operating the No. 5 seam.

Since the writing of the last annual report a fan has been installed for ventilation at this mine, which makes the ventilation good.

The drainage is quite bad. This mine has operated but little during the year.

WM. CARVER, Supt.

EUREKA COLLIERIES COMPANY.

P. O., DONWOOD, W. VA.

Series No. 738. *Eureka No. 13 Mine*.—Is a drift mine, located at Donwood, on the Morris Creek branch of the C. & O. R. R., operating the No. 2 gas seam of coal. The ventilation is produced by a 10 ft. fan, and is not sufficient to keep the head of the workings clear of black damp.

Former recommendations have been carried out in making a second traveling way from the interior of the mine.

The main haulage road is very dry and dusty in places.

This mine has operated very little during the year, except to make improvements and to open some new work.

JOHN NUGENT, Supt. ALFRED THOMPSON, Mine Foreman.

ECONOMY FUEL COMPANY.

P. O., MONTGOMERY, W. VA.

Series No. 738a. *Mud-Sock Mine*.—Is a slope mine, located at Montgomery, on the C. & O. R. R., operating the No. 1 or Wyant seam of coal.

This mine has not been in operation for some time, and had no artificial means of ventilation. Only a few men were engaged in preparing the mine for operation, and the atmosphere was found to be unfit for men to work. The Company was requested to furnish ventilation before continuing developments further.

The company ceased operations, and the mine has been idle ever since.

S. H. MONTGOMERY, Gen. Mgr. HERBERT SMITH, Mine Foreman.

EUREKA COLLIERIES COMPANY.

P. O., DONWOOD, W. VA.

Series No. 739. *Eureka No. 14 Mine*.—Is a drift and incline mine, locat-

ed at Donwood, on the Morris Creek branch of the C. & O. R. R., operating the No. 5 splint coal. After many urgent requests a fan has been installed for ventilation at this mine, and at the time of the last inspection the ventilation was found to be sufficient in volume but the air-current was not carried to the working places as the law requires on account of lack of stoppings.

In some places the drainage is quite bad.

This mine was operated but little during the year, and very little attention has been given to the mining laws.

JOHN NUGENT, Supt.

ALFRED THOMPSON, Mine Foreman.

W. R. JOHNSON COMPANY.

P. O., CRESCENT, W. VA.

Series No. 740. *Eagle No. 1 Mine*.—Is a drift mine, located at Crescent, on the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. fan, and was found to be good. The main haulage road is quite narrow, and refuge holes are needed. In other respects the mining laws are quite well observed.

THOS. BARTLAM, Supt.

JOS. BARTLAM, Mine Foreman.

Series No. 741. *No. 5 Splint Mine*.—This is a drift and incline mine, located at Crescent, on the C. & O. R. R., operating the No. 5 seam.

This mine has natural ventilation, and was found to be quite fair. The drainage was very bad on account of the surface water.

In other respects the mining laws were quite well observed.

THOS. BARTLAM, Supt.

HEZ. WEBSTER, Mine Foreman.

Series No. 741. *No. 6 Splint Mine*.—Is a drift and incline mine and is located at Crescent, on the C. & O. R. R., operating the No. 6 vein of coal.

The ventilation is produced by a force fan, and was found to be very good. The drainage was very bad on account of the surface water. In other respects the mining laws are quite well observed.

THOS. BARTLAM, Supt..

HEZ. WEBSTER, Mine Foreman.

THE CARVER BROS COMPANY.

P. O. EAGLE, W. VA.

Series No. 742. *Edgewater No. 2 Mine*.—Is a drift and incline mine, located at Eagle on the C. & O. R. R., operating the No. 2 gas seam.

The ventilation is produced by a 15 ft. fan located at Edgewater No. 3 Mine, after the air-current has passed through No. 3 Mine, the ventilation is insisted by a "booster" fan located inside this Mine.

The ventilation was quite fair while both fans are in operation but the "Booster" fan is very unreliable in its operation.

Much bad top exists along the haulage road, and much of the timbers

are in bad shape. Considerable improvement has been made in the conditions of this mine during the year.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 743. *Edgewater No. 3 Mine*.—This is a drift and incline mine, located at Eagle on the C. & O. R. R., operating the No. 2 gas seam.

The ventilation is produced by a 15 ft. fan and is quite fair, this current of air passes to the Edgewater No. 2 mine.

Much bad top and timbers exists along the haulage road.

Considerable improvement has been made in this mine during the past year.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 744. *Edgewater No. 1 Mine*.—Located at Eagle on the C. & O. R. R., is a drift mine operating the Eagle seam.

The ventilation is produced by a 15 ft. fan and was found to be quite fair. This mine has been operated but little during the year, and was inspected but once. In other respects the mining laws are quite well observed.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 745. *Eagle and California Mines*.—These are drift and incline mines located at Eagle on the C. & O. R. R., operating the Eagle seam. These mines have not been in operation during the fiscal year, and no inspection was made.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 746. *Edgewater No. 5 Mine*.—Is a drift and incline Mine, located at Eagle, on the C. & O. R. R., operating the No. 5 splint seam. The ventilation is dependent upon natural forces and was quite fair. A few pillars are being worked and this mine will soon be abandoned.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 747. *Diamond Mine*.—Is a drift and incline Mine, located a short distance up Armstrong Creek, on the C. & O. R. R. The coal is hauled by a tram-road to the tippie located half way between Eagle and Mt. Carbon. It operates the No. 2 gas seam, and consists of two separate openings which are intended to be connected at some future time.

The No. 5 opening is ventilated by a 16 ft. fan, and the ventilation is very good. The No. 4 opening is ventilated by an 8 ft. fan located inside the mine and is very good. The air-current is split into several splits by overcasts which are built of concrete, as also the stoppings. The Mining Laws are quite well observed in all other respects.

JAMES CARVER, Supt.

E. FORBES, Mine Foreman.

ST. CLAIR COLLIERY COMPANY.

P. O., EAGLE, W. VA.

Series No. 748. *St. Clair No. 1 Mine*.—Is a drift and incline mine located at Eagle on the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. fan, which was found to be in quite a bad condition. This fan produced quite a good volume of air, but the air-current was not conducted to the working faces, on account of the condition of the stoppings.

No means were used to turn the air-current into the rooms as the law requires. This mine has operated very little during the year, the work being done is preliminary to operation, and but one inspection was made during the year.

L. W. ATKINSON, Supt.

H. O. YOUNG, Mine Foreman.

M-B COAL & COKE COMPANY.

P. O., KIMBERLY, W. VA.

Series No. 750. *Kimberly Mine*.—Is a drift and incline mine, located at Kimberly on the Armstrong Creek branch of the C. & O. R. R. This mine has not been operated during this fiscal year and no inspection was made. C. C. SHARPE, Supt.

Series No. 751. *Columbia No. 2 Gas Mine*.—This is a drift and incline mine, located at Columbia on the Armstrong Creek branch of the C. & O. R. R. This mine has not been operated during this fiscal year, and no inspection was made.

C. C. SHARPE, Supt.

Series No. 752. *Columbia No. 5 Mine*.—This is a drift and incline mine located at Columbia, on the Armstrong Creek branch of the C. & O. R. R., operating the No. 5 spint seam. The ventilation is produced by a furnace and at the time of the first inspection was found to be insufficient on account of the time of the first inspection was found to be insufficient on account of amendments made to obtain a second opening, to provide safety lamps, stretchers, and to have other requirements of the law complied with, was quite well carried out.

C. C. SHARPE, Supt.

W. W. GILL, Mine Foreman.

Series No. 753. *Elkridge No. 1 Mine*.—Is a drift and incline mine, located at Elkridge, on the Armstrong Creek branch of the C. & O. R. R., operating the Powellton seam. The ventilation is produced by a 10 ft. fan, and was found good in volume, but not turned into the rooms as required by law.

Some very careless shooting was found to be practiced; and was quite apparent that the management fails to enforce proper discipline among the employees. In other respects the Mining Laws are quite well observed. C. C. SHARPE, Supt.

L. H. HORNESBY, Mine Foreman.

Series No. 754. *Elkridge No. 2 Mine*.—Is a drift and incline mine, located above Elkridge, on the Armstrong Creek branch of the C. & O. R. R., operating the Powellton seam. The ventilation is produced by a 10 ft. fan and was found to be good. The break-throughs to some extent were

not made at the required distance. In all other respects the Mining Laws are quite well observed.

C. C. SHARPE, Supt.

LEM PAYNE, Mine Foreman.

THE MT. CARBON COMPANY LIMITED.

P. O., POWELLTON, W. VA.

Series No. 755. *Vulcan and South Mine.*—Is a drift and incline mine, located at Powellton, on the Armstrong Creek branch of the C. & O. R. R., operating the Powellton seam.

The ventilation is produced by an 8 ft. fan located inside the mine. Under favorable circumstances the ventilation is fairly sufficient, but for all purposes the ventilation should be increased.

It has been recommended and urged that a larger fan be installed, or the fan relocated nearer the workings, but as yet the management has not been induced to make the improvement.

The old pit-mouth which was dangerous on account of the top, has been abandoned, and a new haulway has been adopted and many other improvements have been made. In all other respects the Mining Laws are quite well observed.

D. T. EVANS, Supt.

J. S. WISEMAN, Mine Foreman.

GREAT KANAWHA COLLIERY COMPANY.

P. O., MT CARBON, W. VA.

Series No. 756. *Edwards Mine.*—Is a drift and incline mine, located at Mt. Carbon, on the C. & O. R. R. There is a 10 ft. fan installed for ventilation, but the air-courses are closed in with gob and falls of roof, and the ventilation does not reach the working faces.

Break-throughs are not made between the rooms as the law requires, and no means is used to turn the air current into the rooms.

At the time of each inspection it was found that places were being worked where sufficient ventilation was not obtained and it was necessary to order men to stop work. The prosecution entered against this Company for violations of the law during the previous year and which was appealed to the Circuit court, has not been heard of since.

JOHN NUGENT, Supt.

JOHN EADES, Mine Foreman.

Series No. 757. *Brewster Mine.*—Is a drift and incline mine, located at Mt. Carbon, on the C. & O. R. R., operating the No. 2 gas seam. There is no means of ventilation provided for this mine in the winter months. Natural ventilation is barely sufficient in the summer months. The black damp from the old workshops makes artificial ventilation a necessity. The Company has been urged to furnish sufficient ventilation, but without any success.

JOHN NUGENT, Supt.

JOHN EADES, Mine Foreman.

Series No. 758. *Digby Mine*.—This is a drift and incline mine located at Mt. Carbon, on the C. & O. R. R., operating the No. 2 gas seam. The ventilation is produced by an 8 ft. fan located inside the mine and was found to be quite good at the workings at the time of the last inspection.

JOHN NUGENT, Supt.

JOHN EADES, Mine Foreman.

LOUP CREEK COLLIERY COMPANY.

PAGE, W. VA.

Series No. 759. *Ansted Mines*.—Is located at Page, on the Virginian Railway. It is a drift and incline mine and operates the Ansted seam of coal. This mine consists of several openings, Nos. 3, 4, 5, 6, 7 and 8. Since an 8 foot Sirroco fan has been installed at the No. 8 opening the ventilation is very good. At the other openings the ventilation depends upon furnaces, which are of the most rude construction of fire-baskets at the bottom of the smoke stack, which does not furnish sufficient ventilation. Some of the working places were found at the time of the last inspection to be in very bad condition as to ventilation. The management so far has failed to carry out recommendations to make the ventilation sufficient, or to adopt "safety" explosives for blasting.

J. J. MARSHALL, Supt.

D. S. DOOLEY, Mine Foreman.

Series No. 760. *Eagle Mine*.—This is a drift and incline mine, located at Page, on the Virginian Railway, and operates the Eagle seam of coal. A rude furnace consisting of a fire basket at the bottom of the smoke stack is used for ventilation, which was found to be very deficient. At the time of the last inspection no movement whatever to the air-current could be discovered.

J. J. MARSHALL, Supt.

D. S. DOOLEY, Mine Foreman.

HERBERT COLLIERIES COMPANY.

HERBERTON, W. VA.

Series No. 761. *Herbert Mine*.—This is a drift and incline mine, located at Herberton, on the Virginian Railway, operating the Eagle seam of coal, and consists of two openings. The "Sand Rock" opening depends upon natural ventilation, and is not sufficient. The other opening is ventilated by three furnaces, and is not sufficient for the development that has been created. The management of the mines has done everything possible to carry out the recommendations made but the Company has been very slow to provide fan ventilation as urged. Assurances have been received that contracts have been let to make the necessary improvements and that the work will be pushed with all possible speed. Coalite is used for blasting the coal.

JOHN CONNELL, Supt.

J. F. MAYNOR, Mine Foreman.

FT. DEFIANCE COAL & COKE COMPANY.

KANAWHA FALLS, W. VA.

Series .No 762. *Fort Defiance Mine.*—This mine is a drift and incline mine, located at Old Gauley, on the C. & O. R. R., operating the Ansted seam of coal. This mine consists of two separate openings, each being ventilated by furnace of the most rude construction. The ventilation was very deficient, and several workmen were ordered to cease work on account of the condition of the ventilation. At a subsequent visit it was found that stoppings were being prepared, and the ventilation was being improved. Fan ventilation has been recommended.

T. R. RAGLAND, Supt.

W. R. COTTLE, Mine Foreman.

LYNCHBURG COLLIERY COMPANY.

P. O., VANETTA, W. VA.

Series No. 763. *Lynchburg Mine.*—Is a drift and incline mine, located at Vanetta on the Gauley branch of the C. & O. R. R., and operates the No. 2 gas seam of coal. This mine consists of several openings, a few of which are ventilated by furnaces, and the others have no means of ventilation. In a number of working places the ventilation was found very deficient. Repeated recommendations to make the ventilation sufficient have been urged, and although the management has repeatedly promised to do so the recommendations have not been carried out in this respect. Shooting of coal from the solid is practiced generally by the miners, and the use of "safety" explosives have been urged, or that the regulations be adopted, which have been issued by the Department of Mines regarding shooting from the solid but without success.

J. C. GRISSINGER, Supt.

JOE VANETTA and GEO. VANETTA,

Mine Foremen,

No Series No. *Lynchburg No. 5 Mine.*—Is a drift and incline mine, is located at Venetta, on the Gauley branch of the C. & O. R. R. and operates the No. 5 seam of coal. At the time of inspection no means of ventilation had been adopted, and the development had progressed to the extent that the ventilation was very deficient. This mine has been recently opened and but one inspection has been made. The management promised to promptly comply with recommendations to have artificial means of ventilation installed at once.

J. C. GRISSINGER, Supt.

ED MARTIN, Mine Foreman.

GAMOCA COAL COMPANY.

P. O., GAMOCA, W. VA.

Series No. 764. *Gemoca No. 2 Gas Mine.*—This is a drift and incline mine, located at Gamoca, on the Gauley branch of the C. & O. R. R., and

operates the No. 2 gas seam of coal. This mine has not been operated since the last inspection made during the last fiscal year, at which time the ventilation was found deficient. No inspection has been made during this fiscal year.

J. M. CAMPBELL, Supt.

Series No. 765. *Gamoca No. 5 Mine*.—This is a drift and incline mine, located at Gamoca, on the Gauley river branch of the C. & O. R. R., and operates the No. 5 seam of coal. The ventilation is produced by a 10 ft. fan and is quite sufficient and fulfills the laws requirements. Shooting of the coal from the solid is practiced by the miners. "Safety" explosives have been recommended, or that the Departments regulations regarding solid shooting be observed, but the same has not been carried out.

J. M. CAMPBELL, Supt.

WALTER HIT, Mine Foreman.

DEITZ COLLIERY COMPANY.

P. O., WYNDALL, W. VA.

Series No. 766. *Deitz No. 2 Mine*.—Is a drift and incline mine, located at Wyndall, on the Gauley river branch of the C. & O. R. R., operating the No. 2 gas seam. This mine has furnace ventilation, which was found to be quite fair in volume on the entries, but the air-current was not carried forward, and not turned into the rooms as the law requires.

Shooting coal from the solid is practiced. The use of safety explosives, or that the regulations of the Mining Department regarding the same be adopted. The management has not carried out the above recommendations.

L. D. MORAN, Supt.

J. A. GREINER, Mine Foreman.

Series No. 767. *Deitz No. 5 Mine*.—Is a drift and incline mine, located at Wyndall on the Gauley river branch of the C. & O. R. R., and operates the No. 5 seam of coal. This mine has furnace ventilation, and was found to be quite sufficient at the time of the last inspection. This mine has been closed down for sometime and but one inspection has been made during the year.

L. D. MORAN, Supt.

NICHOLAS COUNTY.

BELL CREEK COAL COMPANY.

P. O., BELVA, W. VA.

Series No. 768. *Bell Creek Mine*.—Is a drift and incline mine, located at Belva, on the Gauley river branch of the C. & O. R. R., operating the Coalburg seam of coal. The ventilation is produced by a 6 ft. fan and found to be good in volume on the entries but the air-current was not

turned into the rooms as the law requires. Break-throughs were not made in accordance with law. Drainage was quite bad in places.

Only one inspection was made of this mine during the year, the mine being subsequently closed down, and is not now in operation.

CLYDE WOOD, Supt.

S. M. TAYLOR, Mine Foreman.

COLUMBUS COAL COMPANY.

P. O., VAUGHAN, W. VA.

Series Nos. 769-770. *Nos. 1 & 2 Mines.*—These mines are located at Vaughan on the Gauley river branch of the C. & O. R. R. No. 1 mine operates the No. 2 gas seam and is a drift mine. No. 2 mine operates the Lewiston seam of coal and is a drift and incline mine. These mines have been under a receivership, and have not been in operation during the year: and no inspection was made.

RAVEN COLLIERIES COMPANY.

P. O., GLENDALE, W. VA.

Series No. 771. *Raven Mine.*—This is a drift and incline mine, located at Greendale on Rock Camp Creek, on the Gauley river branch of the C. & O. R. R. And operates the Lewiston seam of coal. The ventilation was produced by an 8 ft. fan was found very good and well distributed. An effort was made by the management to have all coal that was not mined with machines shot with safety explosives but declared it to be very unsatisfactory. This mine has worked but little during the first part of the year, and only one inspection was made, subsequently the Mine has been closed down.

F. H. SNYDER, Supt.

KENTUCKY COAL AND LUMBER COMPANY.

P. O., DIXEY, W. VA.

Series Nos. 772-773-774. *Mt. Carmel Mine, Cambria Mine and National Mine.*—These are drift and incline mines, located on Open Fork of Bell Creek, on the Gauley river branch of the C. & O. R. R. These mines are under a receivership, and have not been in operation, and no inspection was made except at the Mt. Carmel Mine where a few men were employed for a short time. An 8 ft. fan is used for ventilation and the air-current was not carried forward to the working places. The drainage was very bad and no attention was given to the requirements of the mining laws. The necessary recommendations were made, and urged that the same be complied with at once. The mine was closed the next day, and is not in operation now.

L. D. BURNS, Supt.

ARMINIUS COAL COMPANY.

P. O., SCOTFORD, W. VA.

Series No. 775. *Arminius Mine*.—Is located at Scotford on Open Fork of Bell Creek, on the Gauley river branch of the C. & O. R. R. Is a drift and incline mine and operates the Coalburg seam of coal. The mine is ventilated with a furnace, and was found to be very deficient in the rooms. The mine Foreman did not have any record book, no air-measurements were made, and little or no attention was paid to the requirements of the Mining Laws. Coal was shot from the solid promiscuously. All the necessary recommendations were made, and it was urged that the regulations of the Mining Department regarding solid shooting be complied with at once. The mine was closed down subsequently, and has not been in operation since. Several visits have been paid to this mine, but only one inspection was made.

G. E. SMITH, Supt.

S. W. SMITH, Mine Foreman.

SAXMAN COAL & COKE COMPANY.

P. O., FENWOOD, W. VA.

Series No. 776. *Fenwick Mine*.—This is a drift mine, located on a branch road about 2 miles from Fenwick on the B. & O. R. R. It operates the New river seam of coal. The ventilation was produced by a furnace and was found to be quite good at the time of the inspection (in the winter months). There was no second opening, and dynamite was being used to some extent for blasting. Solid shooting was being practiced. No rules were posted, the employees were not provided with copies of Mine Laws. No stretchers or blankets were on hand, and no safety lamps. All the necessary recommendations were made, and urged to be complied with at once. This mine had never been inspected before.

JOHN MOSBY, Supt.

N. B. PLASTER, Mine Foreman.

CLAY COUNTY.

CARTER COAL COMPANY.

P. O., SCOTFORD, W. VA.

Series No. 777. *Carter Mine*.—This is a drift and incline mine located at Scotford on Open Fork of Bell Creek, on the Gauley river branch of the C. & O. R. R., operating the Coalburg seam of coal. This mine has furnace ventilation and was found quite sufficient, but the air current was not turned into the rooms as the law requires. Shooting off the solid is practiced, and very little attention is given to the requirements of the Mining laws. The adoption of safety explosives, or that the regulations of the Mining Department regarding solid shooting be adopted was urged upon the management without success.

WM. TAMPLIN, Supt.

LEONARD ARTHUR, Mine Foreman.

KENTUCKY COAL & LUMBER COMPANY.

P. O., DIXEY, W. VA.

Series No. 778. *Scott Mine*.—This is a drift mine, located near Scotford, on Open Fork of Bell Creek, on the Gauley River branch of the C. & O. R. R. This mine has not been in operation during the year and no inspection was made.

NICHOLAS COUNTY.

PARDEE & CURTIN LUMBER COMPANY.

P. O., CURTIN, W. VA.

Series No. 779. *Panther Creek Mine*.—This is a slope mine, located on a lumber road about 8 miles from Curtin, on the B. & O. R. R., which is about 10 miles from Richwood. It operates the New River seam of coal.

This mine was inspected but once during the year and, at the time of inspection, no means was being used for ventilation, a very rude furnace existed for ventilating purposes. Five men were found employed inside the mine. In or near the working places, there was no ventilation at all. Coal was being shot from the solid. An excessive quantity of powder was being used. The mine boss in charge was getting out the coal by contract, which was being used exclusively for the company's lumber mills at Curtin. There was no attention given to requirements of the Mining Laws, the men employed and the Mine Foreman seemed to be totally ignorant of the Mining Laws or rules of safety.

The necessary recommendations were made to the owners of the mine and urged that the same be complied with at once.

A. B. MAYO, Supt.

MINOR HESS, Contractor.

GREENBRIER COUNTY.

ELK LICK COAL COMPANY.

P. O., RICHWOOD, W. VA.

Series No. 780. *Lost Flat Mine*.—This is a drift mine located about 14 miles by rail on the road of the Cherry River Boom & Lumber Company from Richwood, on the B. & O. R. R. It operates the Upper Freeport seam of coal. The ventilation is produced by an 8 ft. fan, which was found to be good in volume on the entries, but the air-current was not turned into the rooms as required by law. The drainage was quite bad on account of the surface waters. Break-throughs were not made quite sufficient and shooting off the solid was practiced to some extent.

In other respects the Mining Laws were complied with.

The necessary recommendations were made, and the use of safety explosives was urged.

HARRY JONES, Supt. and Mine Foreman.

EIGHTH DISTRICT.

GENERAL SUMMARY OF THE EIGHTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES.								Production of		
			Inside.					Outside.			Coal.	Coke	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Fay'te (prt) Greenbrier..	65 1	28 1	2,634 88	717	155	1,016 7	4,522 45	551 6	150	701 6	5,223 51	2,686,819 32,296	131,914
Totals..	66	28	2,672	717	155	1,023	4,567	557	150	707	5,274	2,719,115	131,914

OFFICE OF THE EIGHTH DISTRICT MINE INSPECTOR.

Thurmond, W. Va., March 31st, 1909.

HON. JOHN LAING..

Chief of the Department of Mines,
Charleston, West Virginia.

SIR:—In compliance with the Mining Law, I submit to you my report for the Eighth District, which is for only nine months ending March, 31st, 1909, at which time I resigned from the Department of Mines.

During the nine months I made 93 regular inspections and 35 extra visits, in addition to these I made 12 visits and inspections in the 9th district, and one visit in the 7th district, making a total of 141 inspections and extra visits.

I am glad to report the conditions in general are greatly improved as to sanitation and safety.

My work in this field has been on the line of preventing any serious disasters, which have been so numerous throughout this country the last few years, and I am proud to say that with the co-operation of the management of the different companies and miners, we have averted any serious disaster, though we have had a number of fatal and non-fatal accidents occurring from falls of slate and other ways which has been given to the public.

One of the greatest dangers in this field was the shooting of coal from

the solid, and in some mines dynamite was used to shoot the coal, but at this time I am glad to say that this practice has been principally cut out, though I have had to prosecute in a number of instances to bring about these as well as other conditions, but owing to the very slack run and low selling prices for coal that has prevailed the last year, it has been almost impossible to get all conditions complied with as they should be.

In conclusion I wish to thank the operators and miners in the co-operation and courtesy shown me while attending to my official duties. I also wish to thank my superiors for their able advice and assistance rendered me during the twenty-one months I was in the Mining Department as District Inspector.

Very truly,

J. A. STRAUGHAN.

Mine Inspector, Eighth District.

CONDITION OF THE MINES IN THE EIGHTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 815 indicates the eighth district and number 15 mine.

FAYETTE COUNTY.

MILL CREEK COLLIERY COMPANY.

P. O., ANSTED, W. VA.

Series No. 801. *Mill Creek Mine*.—This mine is located one-half mile east of Hawk Nest on the C. & O. branch and on the branch of Mill Creek, it is a drift mine, operating the Sewell seam, with an average thickness of three feet. Their development is on the double entry system. They have a 12 foot C. & M. fan working as an exhaust and giving good results throughout their mine. At one time this mine generated considerable explosive gas, but at the present time it does not generate as much. Open lights are used. The air pumping machine is used to under cut the coal. At my last inspection I found everything in good condition and the law was being complied with.

WM. H. EVANS, Gen. Mgr.

R. H. MASSEY, Mine Foreman.

DAVE LUCAS, Mine Foreman.

GAULEY MOUNTAIN COAL COMPANY.

P. O., ANSTED, W. VA.

Series Nos. 802-803. *Nova Scotia & Turkey Creek Mines*.—These are drift mines, located at Ansted, on a branch line of the C. & O., about four

miles east of Hawks Nest. They operate on the double entry system in the No. 2 Gas seam, which averages in thickness about five feet. They have from two to four miles of haulage, principally outside, and the entries starting from this tram-road, they have three Thayer fans to ventilate their different entries which gives fairly good results. Drainage in wet weather is bad in parts of the mines, account of them drawing their pillars near the surface and causing the surface water to come into the mine. My last inspection found some dust on their A. & B. entries. The roof is a slate and in some parts of the mine there is a draw slate which gives them trouble, especially on the entries and haulages. The timbering is good throughout the mine. All other conditions were in good shape.

R. C. TAYLOR, Supt.

JAMES A. MARTIN, Mine Foreman.

CROFT & EVANS COAL COMPANY.

P. O., ANSTED, W. VA.

Series Nos. 804-805. *Pine Top and Signal Knob Mines.*—These mines are located at Ansted, on the Mill Creek branch of the C. & O. Ry., three and one-half miles from Hawks Nest. They operate the No. 2 Gas seam when in operation but have been idle over a year and no inspections were made.

W. H. EVANS, Manager.

GAYMONT COLLIERY COMPANY.

P. O., ELMO, W. VA.

Series No. 806. *Gaymont Mine.*—This mine is located on the north side of New River, one mile east of Hawks Nest, on the C. & O. Ry. It is a drift mine operating in the Sewell seam, with an average thickness of three feet. The roof is slate and is usually good. The development is on the double entry system, and the ventilation is produced by a twelve-foot Crawford-McCrimmon fan exhaustion, which gives good results. They have recently changed their haulage on the inside which is a great benefit in safety and haulage. In some parts of their advanced workings explosive gas is generated in small quantities but is taken care of. All other conditions are reasonably well taken care of.

T. C. BEURY, Gen. Mgr.

TOM TOLER, Mine Foreman.

H. H. GIVENS, Supt.

SUNBEURY COAL & COKE COMPANY.

P. O., ELMO, W. VA.

Series No. 807. *Sunny Side Mine.*—This is a drift mine located on the north side of New River, and on the main line of the C. & O. R. R. two miles east of Hawks Nest, and operating the Sewell seam which has an average thickness of three feet, the roof is of a blue slate and usually

good when not disturbed. Parts of their motor haulage is affected by the coal being drawn too close this haulage causing a squeeze to settle on this haulage which gives them trouble to keep in good safe condition. This mine is operated on the double entry system, and ventilated by a seven-foot electric fan exhaustion, which gives satisfactory results. Their drainage is not as good at all times as it should be. The main entry heading generates small quantities of explosive gas when driven but is well taken care of. All other conditions are in very good shape.

T. C. BEURY, Gen. Mgr.

RICHARD SEYMOUR, Mine Foreman.

H. H. GIVENS, Supt.

BEURY-NEW RIVER COAL COMPANY.

P. O., ELMO, W. VA.

Series No. 898. *Elmo Mine*.—This mine is located on the north side of New River and on the main line of the C. & O. Ry., three and one-half miles east of Hawks Nest. It is a drift mine operating in the Sewell seam on the double entry system, ventilated by a No. 10 foot Thayer fan located about two thousand feet inside of mine, which gives fairly good results. Their average thickness of coal is three feet. For some time they have not been developing very much territory on account of changing their plans of turning and driving rooms, to the long-wall system. On my last visit I found their motor haulage at No. 3 drift in bad condition, viz., the top in places was dangerous, the electric trolley wire was in bad shape, and there were no refuge holes. The superintendent promised me that this would be worked on at once. Their drainage was only fair in some parts of the mine. All other conditions complied with the law.

T. C. BEURY, Gen. Mgr.

J. M. SUTTLER, Mine Foreman.

H. H. GIVENS, Supt.

MICHIGAN COAL COMPANY.

Series No. 899. *Michigan Mine*.—This mine is located on the north side of New River and on the C. & O. Ry., four miles east from Hawks Nest. It is a drift mine operating the Sewell seam on the double entry system, ventilated by means of a furnace, which does not meet the requirements at all times. The management promised to install a fan early in the year, but they still have the furnace. Their average thickness of coal is about three feet. The drainage has always been good until my last inspection, when I found it not so good. The roof as a rule is of good slate. Their stoppings are fair. Other conditions comply with the law.

JAMES D. BOONE, Mgr.

P. H. OHLINGER, Mine Foreman.

MANUFACTURERS & CONSUMERS COAL COMPANY.

P. O., FAYETTE, W. VA.

Series No. 810. *Newlyn Mine*.—This is a drift mine located on the

north side of New River and on the C. & O. Ry., four and one-half miles east from Hawks Nest, operating the Sewell seam of coal with an average thickness of three feet. The mine is ventilated by a ten-foot fan with good results. The drainage is only fair on their entry haulage but they will soon greatly improve this. As a rule they have a damp mine throughout, but on my last trip I found some dry dust on their 2nd face entry. The roof as a rule is slate and good. There is explosive gas generating in small quantities in the main heading air way, also third and fourth entries, but it is well taken care of. The stoppings are only fair in parts of the mine. Other conditions comply with the law.

P. H. HENRY, Supt.

J. W. SIMMS, Mine Foreman.

FAYETTE COAL COMPANY.

P. O., FAYETTE, W. VA.

Series No. 811. *Fayette Mine*.—This is a drift mine located on the north side of New River and on the C. & O. Ry., five miles east from Hawks Nest, operating the Sewell seam with an average thickness of three feet. Ventilation is produced by means of a furnace, which does not give satisfaction at all times on account of this being an old mine and the air traveling over a large territory. The stoppings are not properly constructed and taken care of throughout the mine. The drainage as a rule is very good in parts of mine worked. The roof is of slate and good. The advanced workings generate small quantities of explosive gas. Other conditions comply with the law.

E. G. BLUME, Supt.

L. D. RHODES, Mine Foreman.

NUTTALLBURG COLLIERIES COMPANY.

P. O., NUTTALLBURG, W. VA.

Series No. 812. *Nuttallburg Mine*.—This is a drift mine located on the north side of New River and on the C. & O. Ry., seven miles east from Hawks Nets, operating the Sewell seam with an average thickness of four feet. Ventilation is produced by a sixteen foot Crawford-McCrimmon steam fan, which gives good results. The roof is slate and fairly good when properly timbered. The mine is practically damp with good drainage. The developments are on the double entry system. I found the law complied with in other respects.

LEE LONG, Mgr.

J. R. FRAISER, Mine Foreman.

HOLLIDAY COAL COMPANY.

P. O., BEAUTY, W. VA.

Series No. 813. *Keeney Mine*.—This is a drift mine located at the mouth of Keeney's Creek branch on the north side of New River on the C. & O. Ry., eight miles east of Hawks Nest. This is principally all pillar

work operating the Sewell seam averaging three and one-half feet in thickness. They have natural ventilation which is not very good. Their drainage is not good, especially in wet weather. The roof is bad. In part of the mine the timbering is only fair. On my last visit I found the men shooting their coal from the solid. The management promised me to cut it out exclusively. Other conditions complied with the law.

C. M. HOLLIDAY, Supt.

C. W. JONES, Mine Foreman.

KEENEYS CREEK COLLIERY COMPANY.

P. O., WINONA, W. VA.

Series No. 814. *Boone Mine*.—This is a drift mine operating in the Sewell seam, located three miles on the Keeneys Creek branch of the C. & O. Ry. This mine has an average of nearly four feet. The roof is slate and usually very good when well timbered. The ventilation is produced by an eight foot electric fan which gives good results as to volume when distributed to the working faces. The mine is usually damp with good drainage. Other conditions good.

LEE LONG, Mgr.

CHAS. HIGGANS, Mine Foreman.

BALLINGER COAL COMPANY.

P. O., NUTTALLBURG, W. VA..

Series No. 815. *Ballinger No. 2 Mine*.—This is a drift mine, operating the Sewell seam, located on the Keeneys Creek branch of the C. & O. Ry., three and one-half miles from the mouth. The average thickness is three and one-half feet. The roof is slate, which is not very good on account of all the work being pillars. The life of this mine is very short. The ventilation is natural and usually fairly good for the number of men that are working. The drainage is good except on the haulage. Other conditions were found to comply with the law.

GEORGE HOLLAND, Supt.

FRED OHLINGER, Mine Foreman.

Series No. 816. *Ballinger No. 1 Mine*.—This is a drift mine, operating the Sewell seam on the Keeneys Creek branch of the C. & O. Ry. four miles from the mouth. The thickness is about four feet. The roof is a slate and sand rock which is usually good. The ventilation is produced by an eight-foot fan and two furnaces, which gives good results. I found all conditions to comply with the law.

GEORGE HOLLAND, Supt.

JOHN OHLINGER, Mine Foreman.

KEENEYS CREEK COLLIERY COMPANY.

P. O., WINONA, W. VA.

Series No. 817. *Smokeless No. 1 Mine*.—This is a drift mine operating

the Sewell seam on the Keeneys Creek branch of the C. & O. Ry., four and one-half miles from the mouth. The average thickness is four feet. The roof is slate that is fairly good when taken care of. The ventilation is produced by an eight-foot electric fan, which gives good results. All of the development is on the double entry system. The greatest trouble in this mine was the drainage but this is greatly improved and in a short time they will have it in good condition. This mine is in very nice condition and complies with the law.

LEE LONG, Mgr.

TOM SEACRIST, Mine Foreman.

ROTHWELL COAL COMPANY.

P. O., DUBREE, W. VA.

Series No. 818. *Dubree No. 1 Mine.*—This is a drift mine, operating the Sewell seam on the Keeneys Creek branch of the C. & O. Ry., five miles from the mouth. The average thickness is about four feet. The roof is rock which is good. The development is on the double entry system. They are at present preparing to operate part of the mine on the Longwall system. The ventilation is produced by a 12-foot electric fan, which gives good results. On my last inspection of the mine I found the drainage on the first left entry bad, and the dust in the other parts of the mine needed dampening very bad. Other conditions comply reasonably well with the law.

H. H. ROTHWELL, Supt.

M. H. BLYTHE, Mine Foreman.

Series No. 819. *Dubree No. 2 Mine.*—This mine has been idle two or three years. I have made no inspections.

H. H. ROTHWELL, Supt.

BLUME COAL & COKE COMPANY.

P. O., LOOKOUT, W. VA.

Series No. 820. *Blume Mine.*—This is a drift mine, operating the Sewell seam on the Keeneys Creek branch of the C. & O. Ry., six and one-half miles from the mouth. The average thickness is about four feet. The roof is slate which is good in some parts of the mine. Other parts it is slippery and needs careful timbering. The mine is on the double entry system. Ventilation is produced by a ten-foot steam fan with good results. Since they have overhauled their air ways and split their air, their drainage is usually good and well looked after. All other conditions comply reasonably well with the law.

D. W. BOONE, Supt.

J. A. McCALLISTER, Mine Foreman.

LOOKOUT COAL & COKE COMPANY.

P. O., LOOKOUT, W. VA.

Series No. 821. *Lookout Mine.*—This is a drift mine, operating the

Sewell seam on the Keeney's Creek branch of the C. & O. Ry., seven miles from the mouth and at the end of the present road. They have an average thickness of nearly four feet. The roof is slate, fairly good when taken care of. The ventilation is produced by a 10-foot fan and a furnace, which gives fairly good results when properly distributed. On one side of the mine they have been into a rock fault for some time. Drainage as a rule is good; all other conditions comply reasonably well with the law.

D. W. BOONE, Supt. J. A. McCALLISTER, and
J. W. LUSHER, Mine Foremen.

MOSLEY & WALKER COAL COMPANY.

P. O., CLIFF TOP, W. VA.

Series Nos. 822-3-4. *Cliff Top Nos. 1, 2 and 3 Mines.*—These are drift mines, located at Cliff Top on a narrow gauge road, nine miles from Sewell Station. They are operating the Sewell seam, which average close to three feet. All three mines have a slate roof which is usually good when taken care of.

No. 1 Mine is an old mine, retreating with their pillars. It will only last a short time. The ventilation is natural and usually good. Drainage is good.

No. 2 Mine is their new mine. It is operated on the double entry system, ventilated by an eight-foot fan with good results. Drainage is good.

No. 3 Mine is small. They only work three or four men to get coal for their haulage. I have never inspected this mine.

L. WALKER, Supt.

R. L. HERNDEN, Mine Foreman.

PENNSYLVANIA & NEW RIVER COAL COMPANY.

P. O., PENNBROOK, W. VA.

Series No. 825. *Kohinoor Mine.*—This is a drift mine, located on the north side of New River on the main line of the C. & O. Ry., three miles east of Sewell Station. They are operating the Fire Creek seam, which averages about three feet. The roof is slate, which is usually very good. Ventilation is produced by a sixteen foot fan with good results. This mine has not run for several months, but when they were running everything was in reasonably good condition to comply with the law.

SMEDLEY BUTLER, Supt.

ED. LITTLEJOHN, Mine Foreman.

FIRE CREEK COAL & COKE COMPANY.

P. O., FIRE CREEK, W. VA.

Series No. 827. *Fire Creek Mine.*—This is a drift mine, operating the Fire Creek seam. It is located on the north side of New River and on the main line of the C. & O. Ry., three and one-half miles east from Sewell

Station, and has an average thickness of three feet in their new mine. It is worked on the single and double entry system. Ventilation is produced by a furnace which is giving very good results. They expect to install their fan in a short time. I found all conditions in reasonably good shape to comply with the law.

H. L. ATKINSON, Supt.

ZEB ARRINGTON, Mine Foreman.

BEURY BROS. COAL & COKE COMPANY.

P. O., BEURY, W. VA.

Series No. 830. *Echo Mine*.—This is a drift mine, operating the Fire Creek seam. It is located on the north side of New River and on the main line of the C. & O. Ry., three miles west from Thurmond, and has an average thickness of four feet. The roof is slate, which is usually good when taken care of. This mine is worked on the double entry system, and ventilated with two fans with fairly good results in the old mine and good results in the new mine. The drainage in the old mine is good, but only fair in the new one. Other conditions comply reasonably well with the law.

H. B. BEURY, Supt.

PETER WOLF, Mine Foreman.

BIG BEND COAL COMPANY.

P. O., DIMMOCK, W. VA.

Series No. 831. *Big Bend Mine*.—This mine is located one mile west from Thurmond. It is a drift operating the Fire Creek seam, which averages near three feet. The roof is slate and sand Rock, which is good when timbered. Ventilation is produced by an eight foot fan which gives good results. The mine is worked on the single and double entry system. Drainage is usually good except on one haulage. Other conditions comply reasonably well with the law.

JOHN DEMPSEY, Supt.

O. C. WISEMAN, Mine Foreman.

STONE CLIFF COAL & COKE COMPANY.

P. O., STONE CLIFF, W. VA.

Series No. 832. *Stone Cliff Mine*.—This mine is located one and one-half miles east from Thurmond, on the main line of the C. & O. Ry. It is a drift mine, operating in the Fire Creek seam on the double and single entry system. The average thickness is four feet. The roof is slate and rock, which is usually good when timbered. The ventilation is produced by an eight-foot electric fan which gives good results since they split the air. The drainage is very good and well looked after. Other conditions comply reasonably well with the law.

JOHN DEMPSEY, Supt.

G. D. McDANIEL, Mine Foreman.

BEECHWOOD COAL & COKE COMPANY.

P. O., CLAREMONT, W. VA.

Series Nos. 833 & 834. *Beechwood Nos. 1 & 2 Mines.*—These mines are located three miles east from Thurmond, on the main line of the C. & O. Ry. They are drift mines, operating the Fire Creek seam on the double entry system. The thickness is from four to four and one-half feet. The roof is of rock-slate formation, which is good. The ventilation is produced by one 12-foot and one 6-foot steam fan, which are giving good results. The drainage in No. 1 is good and fair; in No. 2 mine other conditions comply reasonably well with the law.

C. C. BEURY, Mgr.

R. B. HANNA and J. H. NEAL, Mine Foremen.

J. E. KITCHEN, Supt.

ALASKA COAL & COKE COMPANY.

P. O., CLAREMONT, W. VA.

Series No. 835. *Alaska Mine.*—This is a drift mine located three and one-half miles east from Thurmond, on the main line of the C. & O. Ry. They are operating the Fire Creek seam of coal on the double entry system. The thickness is four feet. The roof is slate and is good. The ventilation is produced by an eight-foot steam fan, which gives fairly good results when kept in operation. The drainage is good in parts of mine that are worked. Other conditions comply reasonably well with the law.

GEORGE LAWTON, Supt.

S. M. PETERS, Mine Foreman.

EPHRAIM CREEK COAL & COKE COMPANY.

P. O., THAYER, W. VA.

Series No. 836. *Buffalo Mine.*—This is a drift mine located five miles east from Thurmond, on the main line of the C. & O. Ry. They are operating the Fire Creek seam of coal on the double entry system. The thickness is about four feet. The roof is slate and good when taken care of. The ventilation is produced by three seven-foot electric fans which give good results when distributed to the working faces. All other conditions comply reasonably well with the law.

GEORGE FRAZER, Supt. JOHN FILBIN & CHAS. FINK, Mine Foremen.

RIDGEVIEW COAL & COKE COMPANY.

P. O., THAYER, W. VA.

Series No. 837. *Ridgeview Mine.*—This is a drift mine located five miles east from Thurmond, on the main line of the C. & O. Ry. They are operating the Fire Creek seam of coal on the single and double entry system. The thickness is about three feet. The roof is slate and rock, which

is usually good when timbered. The ventilation is produced by an eight-foot steam fan which gives good results. The drainage in parts of the mine is only fair. Other conditions comply reasonably well with the law.

JOHN DEMPSEY, Supt.

JOHN HARRIS, Mine Foreman.

EXPORT COAL COMPANY.

P. O., ROBINS, W. VA.

Series No. 838. *Export Mine*.—This is a drift mine located two and one-half miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry. They are operating in the Fire Creek seam which averages three feet. It has a slate roof which is good when timbered. I made no inspections of this mine during the year on account of not being able to find them running.

E. E. HUDDLESTON, Supt.

LAUREL CREEK COAL COMPANY.

P. O., LAUREL CREEK, W. VA.

Series No. 839. *Laurel Creek Mine*.—This is a drift mine located four miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry., operating in the Fire Creek seam of coal which averages about four feet in height. It has a slate roof which is good when timbered. The ventilation is produced by an eight foot electric fan which gives good results. The drainage at one time was bad, but now it is in good condition. They have recently installed electric haulage, which gives good satisfaction. All other conditions comply reasonably well with the law.

GEO. LAWTON, Mgr.

WM. WHITLOCK, Mine Foreman.

J. W. LAWTON, Supt.

GLENDALE COLLIERY COMPANY.

P. O., LAWTON, W. VA.

Series No. 840. *Glendale Mine*.—This is a drift mine located four and one-half miles from Quinnimont, and on the Laurel Creek branch of the C. & O. Ry., operating in the Fire Creek seam of coal, which averages about four feet in height. The roof is slate and needs very close timbering on account of a small surface over the coal. The ventilation is produced by natural conditions, which is only fair at times, but the management promised they would get a fan whenever they got away from the present work. The drainage is not good at all times. Other conditions comply reasonably well with the law.

C. B. HELWG, Supt.

J. B. LESEURE, Mine Foreman.

QUINNIMONT COAL COMPANY.

P. O., QUINNIMONT, W. VA..

Series Nos. 841-842. *Big Q. & Lick Branch Mines*.—These mines are located five miles from Quinnimont, and on the Laurel Creek branch of the C. & O. Ry. They are drift mines, operating in the Fire Creek seam of coal which averages about four feet in height. The roof is slate which is usually good when timbered. The ventilation is produced by an eight-foot electric fan, which is giving good results. The drainage is usually good. They have recently installed electric haulage in the mine, which is giving good results. All other conditions comply reasonably well with the law.

J. C. GALLANDETT, Mgr.
D. H. PHELPS, Supt.

ED. GORDON, Mine Foreman.

GREENWOOD COAL COMPANY.

P. O., LAWTON, W. VA.

Series No. 843. *Greenwood Mine*.—This is a drift mine located five miles from Quinnimont, and on the Laurel Creek branch of the C. & O. Ry., operating in the Fire Creek seam of coal, which averages about four feet in height. The roof is slate which is good when properly timbered. The ventilation is produced by one steam 10-foot fan and two four-foot electric fans which are giving good results. The drainage is usually good. This mine has recently placed electric haulage in, which is doing nicely. All other conditions comply reasonably well with the law.

WM. A. BROWN, Mgr. H. C. PETERS, and J. H. WOODS, Mine Foremen.

HEMLOCK-HOLLOW COAL COMPANY.

P. O., LAWTON, W. VA.

Series No. 844. *Hemlock Hollow Mine*.—This is a drift mine, located five and one-half miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry., operating the Fire Creek seam of coal which averages about four feet in height. The roof is slate and is good. The ventilation is produced by a 12-foot steam fan, which gives good results when distributed to the working faces. Their drainage is good. This mine is in very nice shape. Everything complies with the law.

WM. A. BROWN, Mgr.
J. A. BROWN, Supt.

D. S. BROWN, Mine Foreman.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL COMPANY.

P. O., GENTRY, W. VA.

Series Nos. 845-846-847. *Layland Mines Nos. 1, 2 & 3*.—These mines

are located seven miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry. They are drift mines operating in the Fire Creek seam of coal which averages about four feet in height. The roof is slate and is good. The development is on the double entry system, ventilated with two 12-foot Capell electric fans with good results. All conditions in and about these mines comply with the law.

H. M. BERTOLOT, Supt.

LOUIS NAHODIL and R. Y. MUIR,

Mine Foremen.

NEW RIVER VALLEY COAL COMPANY.

P. O., HAWKS NEST, W. VA.

Series No. 848. *Bachman Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., one-half mile east from Hawks Nest. They are operating the Sewell seam which averages nearly three feet in height. The roof is slate and is good when timbered. The ventilation is produced by two furnaces which gives good results when looked after properly. Their No. 2 drift is very dry, which compels them to use water to keep the mine damp. The No. 1 drift has only one available opening at this time but are working for the second opening. All other conditions comply reasonably well with the law.

JAMES D. BOONE, Mgr.

FRANK HESS, Mine Foreman.

DANIEL BOONE, Supt.

MARRS BRANCH COAL COMPANY.

P. O., WHITNEY, W. VA.

Series No. 849. *Marrs Branch Mine*.—This mine is located on the south side of New River on the C. & O. Ry., three miles east from Hawks Nest. It is a drift mine operating in the Sewell seam which averages nearly three feet in height. The roof is slate and is usually good when properly timbered. The development is on the double entry system, ventilated by a furnace which gives fair results if looked after as it should be. The drainage is usually very good. This mine has only one available opening at this time. Other conditions comply reasonably well with the law.

JAMES D. BOONE, Mgr.

B. F. DORSEY, Mine Foreman.

LOW MOOR IRON COMPANY OF VIRGINIA.

P. O., KAY MOOR, W. VA.

Series No. 850. *Kay Moor No. 2 Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., five miles east from Hawks Nest, operating the Sewell seam of coal which averages nearly three feet. Roof is good when timbered properly. The development is on the double entry system, ventilated by three furnaces, which give good results when

looked after properly. The drainage is fairly good. They were at this time installing an electric haulage and machines to cut the coal, also a fan. I found all other conditions complying reasonably well with the law.

WM. BARRACK, Supt.

JOHN CLARK, Mine Foreman.

Series No. 851. *Kay Moor, No. 1 Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., seven miles east from Hawks Nest, operating in the Sewell seam which averages three and one-half feet in height. The roof is slate and is usually good if timbered. The development is on the double entry system, ventilated by a twenty-foot fan, which gives fairly good results. The drainage is fair. Other conditions comply reasonably well with the law.

WM. BARRACK, Supt.

J. SHORTHOUSE, Mine Foreman.

BROWN COAL COMPANY.

P. O., NUTTALLBURG, W. VA.

Series No. 852. *Brown Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., eight miles east from Hawks Nest, operating the Sewell seam of coal which averages four feet. The roof is slate and is good when properly timbered. The development is on the double entry system, ventilated by a six foot electric fan, and with the improvements that have been done of late, gives good results. The drainage is greatly improved from what it used to be. Other conditions comply reasonably well with the law.

JOHN BOONE, Supt.

A. R. JONES, Mine Foreman.

ELVERTON COAL & COKE COMPANY.

P. O., CAPERTON, W. VA.

Series No. 853. *Elverton Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., two miles west from Sewell Station, operating the Sewell seam which averages nearly four feet. The roof is slate and is good when properly timbered. The development is on the double entry system, ventilated by a 10-foot electric fan, which gives fairly good results. The drainage is usually good. All other conditions comply reasonably well with the law.

H. A. MOSLEY, Supt.

WALTER WILLIAMS, Mine Foreman.

SOUTH SIDE COAL COMPANY.

CAPERTON, W. VA.

Series No. 854. *South Side Mine*.—This is a drift mine located on the south side of New River, on the C. & O. R. R., one mile west from Sewell

station, operating in the Sewell seam of coal which averages about four feet. The roof is slate and is good when properly timbered. The development is on the double entry system, ventilated by a six foot electric fan located inside of the mine which gives very good results. This mine accumulates a large amount of water but is drained very well. All other conditions comply reasonably well with the law.

G. H. CAPERTON, Mgr.

ROBT. BOYD, Mine Foreman.

NEW RIVER COLLIERIES COMPANY.

SEWELL, W. VA.

Series No. 855. *Cunard Mine*.—This is a drift mine operating the Sewell seam. Have made no inspection on account of its having been idle for about two years.

JAMES MARTIN, Mgr.

FINLOW, W. VA.

Series No. 856. *Brooklyn Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., five miles west from Thurmond, operating in the Sewell seam which averages four feet in height. The roof is slate and is fairly good when properly timbered. The development is on the double entry system and ventilated by a seven foot fan which gives good results. All conditions meet the requirements of law reasonably well.

JAMES MARTIN, Mgr.

ED JONES, Mine Foreman.

RUSH RUN, W. VA.

Series No. 857. *Red Ash Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., three miles west of Thurmond, operating in the Fire creek seam which averages from four to six feet. The roof is slate and is good when timbered properly. The developments are on the double entry system. Ventilation is produced by a 12 foot electric fan which gives fairly good results. This mine has been worked by safety lamps for some time on account of the explosive gas generating. Recently a joint inspection was made and finding no gas the safety lamps were advised to be withdrawn. At present the dry coal dust is the greatest danger, as this coal is very dry and requires a large amount of water to dampen the dust. Other conditions comply reasonably well with the law.

JAMES MARTIN, Mgr.

ROBT. WALLACE, Mine Foreman.

Series No. 858. *Rush Run Mine*.—This is a drift mine located on the south side of New River on the C. & O. Ry., two miles west of Thurmond, operating in the Fire Creek seam which averages from four to six feet in height. The roof is slate and is good when properly timbered. The development is on the double entry system. Ventilation is produced

by a 12 foot electric fan to ventilate the old mine, and a seven foot electric fan to ventilate the new one, with good results when distributed to the working faces properly. The old mine has been worked with the locked safety lamps on account of explosive gas. Recently a joint inspection was made, finding no gas, the safety lamps were withdrawn. The coal is very dry in both mines making a great deal of dust which necessitates a large amount of water to keep it down. Other conditions comply reasonably well with the law.
JAMES MARTIN, Mgr.

THURMOND COAL COMPANY.

CONCHO, W. VA.

Series No. 859. *Thurmond No. 1 Mine.*—This is a drift mine located on the south side of New River, on the C. & O. Ry., one mile west from Thurmond. They are operating in the Sewell seam of coal which averages four feet. The roof is slate and needs careful timbering. The development is on the double entry system and ventilated by a ten foot electric fan which gives good results with the improvements that have been made. The drainage is good except on the haulage in some parts of the mine, which will soon be improved. All other conditions comply reasonably well with the law.

GILBERT SMITH, Supt.

W. E. MORTON, Mine Foreman.

Series No. 860. *Thurmond No. 2 Mine.*—This is a drift mine located on the south side of New River on the C. & O. Ry., one mile west from Thurmond, operating the Sewell seam of coal which averages from four to six feet in height with a slate and rock roof which is very good when timbered properly, the development is on the double entry system, ventilated by a twelve foot electric fan with good results. The mine is dry usually which requires water to dampen the dust. Other conditions comply reasonably well with the law.

GILBERT SMITH, Supt.

T. J. BURK, Mine Foreman.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL COMPANY.

MINDEN, W. VA.

Series No. 861. *Minden No. 1 Mine.*—This is a drift mine located two miles south from Thurmond, on the Arbuckle branch of the C. & O. Ry., operating the Fire Creek seam which averages about five feet in height and ventilated by a 12 foot electric fan with good results. The roof is slate and is usually good. This mine is all pillar work and will soon be finished. All conditions comply reasonably well with the law.

ROBERT WATSON, Supt.

D. F. TITLOW, Mine Foreman.

Series No. 862. *Minden No. 2 Mine.*—This is a drift mine located three miles south from Thurmond, on the Arbuckle branch of the C. & O. Ry.,

operating in the Sewell seam which averages from four to five feet with a slate roof and needs careful timbering. The drainage is fairly good and well looked after. All other conditions meet the requirements of law reasonably well.

ROBERT WATSON, Supt.

H. T. WOOD, Mine Foreman.

Series No. 863. *No. 3 Mine*.—This is a drift mine located four miles south from Thurmond, on the Arbuckle branch of the C. & O. Ry., operating in the Sewell seam which averages from four to five feet in height. The roof is slate and rock and needs careful timbering. The development is on the double and triple entry system, ventilated by two ten foot electric fans with good results. All conditions comply reasonably well with the law.

ROBERT WATSON, Supt.

J. T. SHERER, Mine Foreman.

Series No. 864. *Minden No. 4 Mine*.—This is a drift mine located four miles south of Thurmond, on the Arbuckle branch of the C. & O. Ry., operating in the Sewell seam which averages four and one-half feet in height. The roof is slate and rock roof and is good when timbered properly. The development is on the double and triple entry system, ventilated by a fifteen foot electric fan which gives good results. This mine generates small quantities of explosive gas, but is well taken care of. The drainage is good. Some parts are dry and have to be watered. All other conditions comply reasonably well with the law.

ROBERT WATSON, Supt.

T. S. ASKEY, Mine Foreman.

Series No. 865. *Minden No. 5 Mine*.—This is a drift mine located three miles south of Thurmond, on the Arbuckle branch of the C. & O. Ry., operating in the Sewell seam which averages from four to five feet in height. The roof is slate and rock and is good when properly timbered. The development is on the double and triple entry system, ventilated by a fifteen foot electric fan with good results. This mine also generates small quantities of explosive gas in the advanced workings, but it is well taken care of. The drainage is good, except in some parts of the mine where the dry coal dust has to be watered. All other conditions comply with the law reasonably well.

ROBERT WATSON, Supt.

JOHN LINDLEY, Mine Foreman.

NINTH DISTRICT.

GENERAL SUMMARY OF THE NINTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	EMPLOYES.								Production of		
		Inside.					Outside.			Coal.	Coke.	
		Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Fay'te (prt)	38 21	1,718	289	135	770	2,912	458	103	561	3,473	2,421,977	88,700
Rt'gh (prt)	48 17	1,386	213	48	620	2,267	356	-----	356	2,623	1,631,500	-----
Totals..	86 39	3,104	502	183	1,390	5,179	814	103	917	6,096	4,053,477	88,700

Beckley, W. Va., April 30, 1909.

HON. JOHN LAING, ESQ.,

Chief Mine Inspector,

Charleston, W. Va.

DEAR SIR:—

Having the pleasure of submitting to you my annual report of the 9th District, for my period in office which expires May 1st, 1909, I find that mining developments in this field are becoming more scientific, I am pleased to say that there is becoming a relative realization, by all concerned, of the necessity to provide means of eliminating the dangers by such provisions as will make mining in this field as safe as in any other, as the best ventilating fans are in use and many more being installed at the new and old mining plants providing good ventilation, which is absolutely necessary to successfully meet the present situations. While this is good, the necessary and important requirement are its conduct and maintenance, which I am sorry to say has been badly neglected in the past years; to maintain the necessary volume of air required for the health and safety of the employes, as well as properly substantial doors and stoppings are being built between the intake and outlet air course, and must be maintained with air courses of large area at all times kept clear of obstruction, these conditions depend on humane agency from whose carelessness and neglect the many casualties and loss of life occur, and will be so until the gravity of the neglect of ventilation regardless of good and powerful ventilators, until those conditions be put in practice at the opening of each and every mine.

Moreover, I wish to give congratulations to our Government Experiment Station at Pittsburg, Pa., which is adding great knowledge to our mining world and proving to many people the dangers of the dust in our high volatile coal that exists in this state.

My stay in this department has been a short but rather pleasant one, and I wish to give thanks to the Operators in my district for the courtesy shown me while in office, and abiding with a strict compliance of the law. I also wish to thank the Mining Department in general for their aid and courtesy shown me.

For my last ten months in office I have made 95 inspections and 80 special visits, during which time I have been called out of my field on joint inspections several times.

Again I want to thank you cordially for your counsel and courtesy as well as the employers and employes of my district for the consideration and treatment I have received. Believing that a mutual enforcement and observance of our mining laws will give to all beneficial and happy conditions and results, I am, sincerely yours,

JOHN PHILLIPS,
Mine Inspector, 9th District.

CONDITION OF THE MINES IN THE NINTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz; 916 indicates the Ninth District and number 16 mine.

FAYETTE COUNTY.

THE DUNGLEN COAL COMPANY.

Series No. 901. *Dunglen No. 1 Mine.*—This mine is located one mile south of Thurmond, on the C. & O. railroad on Dunloop Creek. It is a drift opening, operating the Sewell seam on the double entry system, the ventilation is produced by a 6 foot Stine fan, which gives moderate results. The roof is of a soft nature and requires very close posting, but it is taken care of very well.

THOMAS BOYD, Supt. and Mine Foreman.

Series No. 902. *Dunglen No. 2 Mine.*—This mine is located one mile south of Thurmond on the C. & O. R. R., on Dunloop Creek. It is a series of drift openings, operating the Fire Creek seam on the double entry system, being ventilated as yet by a furnace, as the seam is low the mine is only in about 300 feet. They have promised to install a fan at this mine. The roof is a soft draw slate and needs very close attention, which is being looked after.

THOMAS BOYD, Supt. and Mine Foreman.

NEWLYN COAL COMPANY.

Series No. 903. *Newlyn Mine*.—This mine is located one mile south of Thurmond, on the C. & O. R. R., on Dunloop Creek. It is a series of drift openings, operating in the Fire Creek seam on the double entry system. As yet very little work has been done, as faults and rolls prevent the development of this mine, the ventilation is being produced by a furnace, which gives fair results.

JAS. BOYD, Supt.

EDW. THOMAS, Mine Foreman.

MEADOW FORK COAL COMPANY.

Series No. 904. *Meadow Fork Mine*.—This is a drift mine located three miles south of Thurmond, on the C. & O. R. R., on the Dunloop Creek. It is a series of drift openings, operating in the Sewell seam, and worked on the double entry system, as this is a very small acreage it is ventilated by a large furnace which gives very good results, having four openings around the hill which gives free vent to the furnace. This vein is carrying with it a draw slate, which is of a brittle nature, and needs very close attention.

JAS. THOMAS, Supt.

HOGUE MEADOWS, Mine Foreman.

HARVEY COAL & COKE COMPANY.

Series No. 905 & 906. *Harvey Nos. 1 & 2 Mines*.—These are drift mines, located on the C. & O. R. R., on Big Loup Creek, operating in the Sewell seam, which ranges from 4 to 5 ft. in thickness. In some sections of these mines the roof is slate and in other sections it is sand rock. The ventilation is produced by a 10 ft. Stine fan at each mine which gives very good results. The drainage in these mines are very good. The general conditions and all haulways are fair. The timbering is well taken care of, a separate traveling way being installed for the men to travel to and from their work. Blankets and stretchers are kept on hand.

FRED DIXON, Supt.

JOHN DUNN, Mine Foreman.

LAURA MINING COMPANY.

Series No. 907. *Laura Mine*.—This mine is located about six miles south of Thurmond on the Loup Creek branch of the C. & O. R. R. It is a drift opening, operating in the Sewell seam on the double entry system. The ventilation is produced by a 10 foot Stine fan, which gives very good results. This mine is damp throughout. The roof is variable, but is well timbered. Refuge holes along the main entry. Mining Laws are obeyed.

THOS. NICHOLS, Supt.

THOS. MORGAN, Mine Foreman.

PRUDENCE COAL COMPANY.

Series No. 908. *Prudence Mine*.—This is a drift mine located on the

Big Loup Creek branch of the C. & O. R. R. It is located four miles south of Thurmond, operations are in the Sewell seam. The roof in some sections is slate and of a very brittle nature. The mine is operated on the double entry system. Ventilation being produced by a 10 foot Stine fan, which gives fair results. Drainage is also fair, the mining laws and rules are being observed at this mine.

JOS. SCHWEITZER, Supt.

JAS. ROBINSON, Mine Foreman.

Series No. 909. *Lyman Mine*.—This mine is a drift, located on the Big Loup Creek, on the C. & O. R. R., five miles south of Thurmond, operating the Sewell seam on the double entry system. Ventilation is being produced by a 10 foot Stine fan of a high speed type, which gives very good results. This mine carries with it a very dangerous draw slate, which needs close attention. Rules are posted. Blankets and stretchers are kept on hand.

JOS. SCHWEITZER, Supt.

W. S. WILLIAMSON, Mine Foreman.

Series No. 910. *Jones Mine*.—This mine is located about five miles south of Thurmond, on the Loup Creek branch of the C. & O. R. R. This mine is opened up on the double entry system, operating the Sewell seam. Ventilation is produced by an 8 foot Thayer fan which gives good results. This mine carries with it a fair roof. Rules are posted and blankets and stretchers are kept on hand.

JOS. SCHWEITZER, Supt.

JAS. ROBINSON, Mine Foreman.

THE STAR COAL & COKE COMPANY.

Series No. 911. *Star Mine*.—This is a drift mine located six miles south of Thurmond, on the Loup Creek branch of the C. & O. R. R. It is operated on the double entry system and is in the Sewell seam. It ranges in thickness from 4 to 5 feet. Ventilation is being produced by a 12x5 foot Capell fan, which gives very good results. Ventilating arrangements including doors, stoppings and overcasts are well installed. This mine generates considerable gas and needs very close attention, but on my different inspections I found this mine to be in very good condition. Rules are posted and a strict observance of the law is complied with. Shot-firers are employed at this mine.

DAVID EVENDALL, Supt.

P. B. EVENDALL, Mine Foreman

HENRY RICE and RICHD. OWENS, Fire Bosses

COLLINS COLLIERY COMPANY.

Series No. 912. *Collins No. 1 Mine*.—This is a drift mine located on the Loup Creek branch of the C. & O. R. R., located about eight miles south of Thurmond. It is operated on the double entry system in the Sewell seam which ranges in thickness from 4 to 5 feet. Its roof is of a different nature, in some sections it is of sand rock and in others slate. Ventilation is being produced by an 18 foot Crawford and McCrimmon fan, which give very good results. Drainage in this mine is fair. The

general safety of haulways are in good condition. Rules are posted. Blankets and stretchers are kept on hand.

FRED DIXON, Supt.

J. W. WEDGEWOOD, Mine Foreman.

Series No. 913. *Collins No. 2 Mine*.—This is a drift mine located on the Loup Creek branch of the C. & O. R. R., about eight miles south of Thurmond. It is opened up on the double entry system, and operates in the Sewell seam. This mine carries with it a draw slate which needs very close attention. The ventilation is produced by an 18 foot Crawford and McCrimmon fan, which gives fair results. This is an old mine, its principal part at present is robbing. The drainage is moderate. Rules are posted. Blankets and stretchers are kept on hand.

FRED DIXON, Supt.

JOHN HAVORD, Mine Foreman

WHITE OAK FUEL COMPANY.

Series No. 914. *Wingrove Mine*.—This is a shaft mine and is located one mile west of Glen Jean on the White Oak Branch of the C. & O. R. R., operating in the Sewell seam. Ventilation is being produced by a 20 foot Capell fan, which gives desired results throughout the mine. There is some gas found at the face of advanced workings, but a strict watch is kept on same. The roof in this mine varies but is well attended to, it is equipped with an air shaft with all safety appliances attached, a speaking tube is in this shaft and hoisting machinery and cages are well equipped. Rules are posted. Blankets and stretchers are kept on hand.

CHRIS MacTAGGART, Supt.

JOHN HOLMES, Mine Foreman.

GEORGE SCOTT, Fire Boss.

Series No. 915. *Scarbro Mine*.—This is a shaft mine located two miles west of Glen Jean on the White Oak Branch of the C. & O. R. R., operating in the Sewell seam on the double entry and triple entry system. Ventilation is produced by an 18x7 foot Capell fan, which gives very good results throughout the mine. Gas has been found in this mine but is well taken care of by the large volume of air distributed to the face of the workings and by a very competent Mine Foreman. This mine is damp throughout and carries with it a draw slate, which must be looked after very carefully. This mine is also equipped with an air shaft and all safety appliances for the retreat of men. Rules are posted. Blankets and stretchers are kept on hand.

A. D. CALLIHAN, Supt.

RALPH BRABBXON, Mine Foreman.

FRED DIXON, Sr., Fire Boss.

Series No. 916. *Whipple Mine*.—This is a shaft mine located four miles north-west of Glen Jean on the Dunloop Creek Branch of the C. & O. R. R., and on the White Oak branch of the same R. R., operating in the Sewell seam on the double entry system, ventilation being produced by a 16x5 foot Capell fan, which gives good results. This mine gives off considerable gas. The largest quantities found in so called rock entry

but is well taken care of. It has a small portion of draw slate which must be closely watched. There are some safety lamps used in this mine and is worked exclusively on Safety Powder, it is equipped with an air shaft and stairway. Rules are posted.

WM. FARREL, Supt.

SAM'L HALE, Mine Foreman.

S. S. COOPER, Fire Boss.

WHITE OAK FUEL COMPANY.

Series No. 917. *Carlisle Mine*.—This mine is a shaft mine located four miles west of Glen Jean on the C. & O. R. R. on the White Oak Branch. Operating in the Sewell seam in the double and triple entry system. Ventilation being produced by an 18x7 inch Capell fan, which gives very good results. Some gas has been found in the advanced workings of this mine, but is well taken care of. The roof as a rule is generally good. Drainage fair. This mine is worked exclusively by Safety Powder, some safety lamps are being used in this mine. Second opening and equipments meets lawful requirements. Rules posted.

EDW. COCKBURN, Supt.

ISAAC PELTER, Mine Foreman.

WM. DIXON, Fire Boss.

Series No. 918. *Oakwood Mine*.—This is a shaft mine located about four miles west of Glen Jean on the C. & O. R. R. on the White Oak Branch. It is worked on the double and triple entry system, operating in the Sewell seam. Ventilation is produced by an 18x7 foot Capell fan which gives satisfactory results. There is some gas found in this mine in the advanced workings. It is generally damp. The roof is of a hard nature. The second opening to this mine being Carlisle Shaft and meets all requirements of the law. It is worked exclusively by safety powder. Rules are posted.

EDW. COCKBURN, Supt.

WM. A. JONES, Mine Foreman.

T. H. HERRIN, Fire Boss.

STUART COLLIERY COMPANY.

Series No. 919. *Parral Mine*.—This mine is a shaft mine and is located eight miles west of Glen Jean on the Loup Creek branch of the C. & O. R. R. on the company's line from Scarbro, operating the Sewell seam on triple entry system. Ventilation being produced by an 18x7 foot Capell fan, which gives very good results throughout the mine. This mine gives off a considerable amount of gas and safety lamps are used exclusively in parts. The gas and dangers which prevail in this mine are well taken care of by a competent Mine Foreman. It is partly damp. The roof is of a weak nature. This mine is worked exclusively on safety powder and shot firers. All precautions are being taken. This mine is equipped with a safety shaft and all safety appliances. Rules are posted. Close observance of the law is complied with.

EVAN COCKBURN, Supt.

JOHN POWELL, Mine Foreman.

TEDDY MILLS, Fire Boss.

Series No. 920. *Beech Creek Mine*.—The Beech Creek Mine is located one-half mile north of the Parral Shaft, development being in the Little Eagle seam, which ranges in thickness to about 3 feet. It carries with it a sand rock roof and is located near the top of the mountain. Ventilation is produced by two small furnaces. There are only about 12 or 15 men working in this mine. It is damp throughout. No gas whatever. is worked with safety powder. Rules posted.

EVAN COCKBURN, Supt.

E. T. WATSON, Mine Foreman.

Series No. 921. *Stuart Mine*.—This is a shaft mine and is located nine miles west of Glen Jean on the White Oak Branch of the C. & O. R. R. It is opened up on the triple entry system, operating in the Sewell seam. Ventilation is produced by an 18x7 foot Capell fan, which gives excellent results throughout the mine. This mine generates considerable gas in the advanced workings, but is well taken care of under the usual conditions. Safety lamps are being used in parts. The roof is of a very free and weak character making it extremely difficult to keep the air courses clear. Extra precaution has been put into effect which, under existing conditions are necessary, this mine is comparatively dry throughout. It is worked exclusive'y on safety powder and shot-firers. The second opening meets full requirements of the law, being properly equipped for safe retreat of the men.

W. J. HEATHERMAN, Supt.

ALFD. THOMPSON, Mine Foreman.

THOS. FRICKLETON, Fire Boss.

NICHOL COLLIERY COMPANY.

Series No. 922. *Nichol Mine*.—This mine is located at Glen Jean on the Loup Creek Branch of the C. & O. R. R. It is a slope mine opened up on the double entry system in the Sewell seam. Ventilation is produced by a 12x5 foot Capell fan, which gives very good results throughout the mine. Gas has been found in the advanced workings of this mine, safety lamps being used in parts, with the modern appliances of cement stoppings and cement overcasts and a competent Mine Foreman. It is well taken care of. This mine is damp throughout. Rules are posted.

LEMUEL SMITH, Supt.

WM. H. WATKEYS, Mine Foreman.

THOMAS MASON, Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 923, 924 and 925. *Sun Nos. 1, 2 & 3 Mines*.—These mines are located nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. It is opened up by a shaft and two slopes. These mines are being operated in the double and triple entry system in the Sewell seam, being all connected and ventilated by two fans one 18 foot Capell and one 12x5 foot Capell fans, with the aid of cement over-casts, stoppings and good doors, with good results. This mine generates considerable gas, but is well taken care of by the proper distribution of ventilation. They are partly dry, but are being cared for by a watering system, which

is doing very well. The coal ranges in thickness from $4\frac{1}{2}$ to 5 feet. Refuge holes along motor roads are provided. Drainage is fair. Shaft is equipped with safety appliances and separate traveling, as in the slope. This mine is worked with safety powder.

JAS. MARTIN, Supt.

ZACHARY EVANS, Mine Foreman.

WM. HERRON, JAS. McMILLAN and WM. COPE, Fire Bosses.

McKELL COAL & COKE COMPANY.

Series No. 926. *Derryhale Mine*.—This mine is located about nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. This is a drift mine opened up on the double entry system in the Sewell seam. Ventilation is produced by an 8 foot Stine fan, which gives very good results. The roof in this mine is chiefly slate of a weak nature, and needs close attention. This mine is damp throughout. It generates a small amount of gas in the advanced workings but is well taken care of. Rules are posted. Blankets and stretchers are kept on hand.

THOS. NICHOL, Supt.

THOS. LEWIS, Mine Foreman.

JOHN SWEENEY, Fire Boss.

DUNNLOOP COAL & COKE COMPANY.

Series Nos. 927 & 929. *Dunnloop No. 1 Mine*.—These mines are located about eight miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. They are a series of drift openings opened up on the Sewell seam on the double entry system. The work at present is principally pillar work. The ventilation is produced from Collins No. 1 and air is taken in from one to three and delivered to Collins No. 1 fan. They are very wet mines carrying with it a draw slate which needs close attention. Rules are posted.

CHRIS MacTAGGART, Supt.

GEO. ERIE, Mine Foreman.

Series No. 928. *Dunnloop No. 2 Mine*.—This mine is located nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. on Dunnloop Creek. It is a drift mine opened up on the double entry system, operating in the Sewell seam. Ventilation is produced by a 7 foot Stine fan, which gives fair results. This mine is very damp. The roof is of a brittle nature having no regularity about it, requires close attention. It is difficult to retain the main air ways. There is no gas in this mine. Rules are posted. This mine is equipped with refuge holes on haulways, good cement stoppings and overcasts.

CHRIS MacTAGGART, Supt.

ODIE WILLIAMS, Mine Foreman.

TURKEY KNOB COAL COMPANY.

Series No. 930. *Turkey Knob Mine*.—This mine is located about nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. on Dunnloop Creek. It is a drift opening, operating the Sewell seam on the double entry system. Ventilation being produced by a 10 foot Thayer

fan and gives fair results throughout the mine. The roof is a very brittle carrying with it a heavy draw slate. It is a very wet mine and very difficult to handle. No gas, whatever, but is worked by safety powder. Rules are posted.

L. L. BLENKINSOPP, Supt.

M. A. JONES, Mine Foreman.

MACDONALD COLLIERY COMPANY.

Series No. 931. *Macdonald Mine*.—This mine is located ten miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. It is a drift opening operating in the Sewell seam on the double entry system. The ventilation is produced by a 7 foot Stine fan placed on the outside of the 17th entry. As this is an old mine and in its previous record being poorly handled, its principal workings at present consists of pillar robbing. The roof varies. It is a damp mine throughout.

WALTER THURMOND, Supt.

JAS. BUCKLEY, Mine Foreman.

SUGAR CREEK COAL & COKE COMPANY.

Series No. 932. *Sugar Creek 1 & 2 Mines*.—These mines are located one mile west of Macdonald on the Loup Creek Branch of the C. & O. R. R., on Sugar Creek. These are two slope openings, operating the Sewell seam on the double entry system. The ventilation is produced by two fan, one eight and one six-foot Stine fan, which gives fair results throughout the mines. These mines are very wet. The roof in the No. 1 mine is of a fair nature, but in No. 2 is of a weaker nature and requires closer attention. The coal from both mines goes over the one tippie. These mines are worked exclusively by safety powder. No gas whatever. Rules are posted.

WM. FARREL, Supt.

F. L. RAMEY, Mine Foreman.

MT. HOPE COAL & COKE COMPANY.

Series No. 933. *Baby Mine*.—This mine is located one and one-half miles south of Macdonald on the Loup Creek branch of the C. & O. R. R. on Dunloup Creek. It is a drift opening, operating in the Sewell seam on the double entry system. The operations at this mine have been suspended for some time awaiting a side track.

A. P. BAILEY, Supt.

McKELL COAL & COKE COMPANY.

Series No. 934. *Kilsyth Mine*.—This mine is located two miles south of Macdonald on the Loup Creek branch of the C. & O. R. R., It is a drift opening operating in the Sewell seam on the triple entry system. The ventilation is produced by a 16x5 ft. Capell fan, with cement stoppings and over-casts in mine and a competent Mine Foreman. It is well ventilated. This mine is damp throughout. No gas exists. This is a very large mine and is worked exclusively by safety powder and shot, inspectors being under strict discipline.

THOS. NICHOL, Gen. Mgr.

THOS. LEWIS, Mine Foreman.

R. A. McCLURE, Supt.

PRICE HILL FUEL COMPANY.

Series No. 935. *Sherwood Mine*.—This mine is located two miles south of Maconald on the Loup Creek Branch of the C. & O. R. R. It is a shaft opening operating in the Sewell seam on the triple entry system. Its thickness varies from 4 to 4 1-2 feet. The ventilation is produced by an 18x7 Capell fan. The air shaft is equipped with modern appliances. There was some gas found in the advanced workings, but is well taken care of. The mine is damp throughout. Rules are posted.

EDW. PINKNEY, Supt.

WM. BRABBIN, Mine Foreman.

HENRY NAYLOR, Fire Boss.

RALEIGH COUNTY.

PRICE HILL FUEL COMPANY.

Series No. 936. *Price Hill Mine*.—This is a shaft mine located two and one-half miles south of Macdonald on the Loup Creek branch of the C. & O. R. R., on Dunloop Creek. It is operating in the Sewell seam on the triple entry system. The coal averages in thickness about 4 feet with a fairly good slate roof. The ventilation is produced by an 18x7 ft. Capell fan, which gives good results throughout the mine. This mine generates some gas in the advanced workings, but is well taken care of by good ventilation. Rules are posted. This mine is worked exclusively by safety powder.

EDW. PINKNEY, Supt.

ADAM LINDLEY, Mine Foreman.

ANTHONY CHAMBERS, Fire Boss.

McKELL COAL & COKE COMPANY.

Series Nos. 937 & 938. *Oswald & Sidney Mines*.—These are drift mines located on Big Loup Creek on C. & O. R. R. via McKell R. R., and are located fourteen miles south of Thurmond. Both of those mines are in the Sewell seam on the double entry system. The thickness of the coal ranges from 4 to 4 1-2 feet. In some sections the roof is very brittle and in others it is very strong. This seam is very rolling. Both mines are ventilated separately by two fans 10x4½ ft, Capell type, which gives good results. The coal from both drifts go over the one tipple that spans the valley. There is no gas whatever. They are very damp throughout.

I. M. IMBODEN, Supt.

LAWN HUNLEY, Mine Foreman.

Series No. 939. *Graham Mines*.—This is a drift mine located on Loup Creek branch of the C. & O. R. R. via McKell R. R. It is located about fourteen miles south of Thurmond. This is a drift mine, opened up on the double entry system and is operating in the Sewell seam. The ventilation is produced by a 9x5 ft. Capell fan, which gives good results throughout the mine. The thickness of this seam ranges from 4 to 5 feet carrying with it a very treacherous draw slate which needs careful attention. This

mine is damp throughout. Rules are posted. Close observance of the law is complied with.

J. F. HINDSON, Supt.

LEMUEL M. SMITH, Mine Foreman.

McKELL COAL & COKE COMPANY.

Series No. 940. *Tamroy Mine.*—This is a drift mine located about fifteen miles south of Thurmond, on the Loup Creek branch of the C. & O. R. R. via McKell R. R. This mine is opened up on the four entry system, operating in the Sewell seam and gives great promise as a coal producer. The seam ranges in thickness from 4 to 5 feet. They have just installed a 16x5 ft. Capell fan and built their sub-station. This is a comparatively damp mine. Rules are posted. As yet I have found no gas.

J. F. HINDSON, Supt.

LEMUEL SMITH, Sr., Mine Foreman.

WRIGHT COAL & COKE COMPANY.

Series Nos. 942 & 943. *Wright Nos. 1 & 2 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. three miles west of Prince. These operations are in the Fire Creek seam. The developments are principally conducted on the double entry system. The ventilation in No. 1 is produced by a 7 foot disc fan, and in No. 2 by an 8 foot Thayer fan, which gives very fair results. Coal from both mines go over the one tippie. Both mines are very wet but they have no gas to contend with. The work in the No. 1 mine is mostly pillar robbing. The roof is a fairly good one. The drainage is only moderate.

CHAS. C. GRESSANG, Supt.

J. A. DAVIS, Mine Foreman.

Series No. 944. *Wright No. 3 Mine.*—This is a drift mine located four miles west of Prince. It is opened up on the double entry system, operating in the Fire Creek seam. It is located on the Piney Branch of the C. & O. R. R. This mine is ventilated by an 8 foot Thayer fan, which gives fairly good results throughout the mine. The mine is very damp. The seam at this mine is of a very irregular character very much intersected with rolls, and ranging in thickness from 2 feet 6 inches to 4 feet. Rules are posted. Stretchers and blankets on hand.

CHAS. C. GRESSANG, Supt.

ARNOLD FORD, Mine Foreman.

STONEWALL COAL & COKE COMPANY.

Series Nos. 945 & 946. *Stonewall Nos. 3 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. about four miles west of Prince. The operations are in the Fire Creek and Sewell seam. The development of the Stonewall No. 4 mine is in the Fire Creek Seam which will average about 3 feet in thickness, and on account of the thin conditions of the seam very little work has been done during the year. The development of the No. 3 mine is in the Sewell seam, which averages from 4 to 6 feet in thickness. Both of these mines are opened up on the

double entry system. No. 4 mine is ventilated by furnace. No. 3 by a home made 7 foot fan, which gives very good results. These mines are very damp and there is no gas given off. These mines are worked with safety powder. Rules are posted.

FRANK M. LEE, Supt.

J. A. BRUBAKER, Mine Foreman.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 948 & 949. *Lanark Nos. 3 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. five miles west of Prince. The No. 3 mine is opened up in the Fire-Creek Seam on the double entry system. Its work at present is pillar robbing, and will be finished in about six months, and the ventilation is produced by a furnace which gives very good results. It carries with it a fair roof. The mine is very damp. The No. 4 mine is operated in the Sewell seam on the double entry system. The ventilation is produced by an 8 foot Stine fan, and with their stone and cement stoppings it makes the ventilation very fair throughout the mines. These mines are worked on safety powder exclusively.

JAS. MARTIN, Supt.

CHAS. LAWSON, Mine Foreman.

PINEY MINING COMPANY.

Series No. 950 & 952. *Stanaford Nos. 2 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R., about nine miles from Prince. The developments are in the Fire Creek seam, but are very irregular in thickness, ranging from 4 to 6 feet. The work is conducted principally on the double entry system. The ventilation produced for these two mines is produced by an 8 foot Stine fan, placed on the so-called No. 5 drift, which gives a separate split for both mines and is giving fairly good results. The roof is of a hard nature and haulways is in good condition. These mines generate some gas in the advanced workings. They are partly dry but not dusty. A fire boss is being employed. These mines are worked exclusively by safety powder. Rules are posted. Blankets and stretchers are kept on hand.

ARTHUR MITCHELL, Supt.

JOHN E. PHILLIPS, Mine Foreman.

EDW. NELSON, Fire Boss.

Series No. 951. *Stanaford No. 3 Mine.*—This mine is located on the Piney Branch of the C. & O. R. R. about ten miles west of Prince. The mine is opened up on the double entry system and is operating in the Sewell seam. Ventilation is produced by a 7 foot Stine fan which gives very good results throughout the mine. This mine carries with it a very brittle roof. No gas whatever. The mine is damp throughout. Rules are posted. Worked exclusively by safety powder. Refuge holes on haulways are provided.

ARTHUR MITCHELL, Supt.

MORRIS McGUIRE, Mine Foreman.

Series Nos. 953 & 954. *Stanaford Nos. 5 & 6 Mines.*—These are drift

mines located on the Piney Branch of the C. & O. R. R. about nine miles west of Prince. The No. 5 mine has been abandoned and connected to No. 2 Mine. The No. 6 mine operates on the double entry system in the Fire Creek seam. The coal ranges in thickness from 5 to 7 feet. This is a dry mine, and gives off considerable gas. The ventilation is produced by an 8 foot Thayer fan, which does not give sufficient ventilation, but the company has arranged to install a 6 foot Serocco high speed fan which will produce sufficient ventilation. At present they are not working the amount of men that they might, due to the inefficiency of their mechanical power. Safety lamps are partly used in this mine. A watering system is also installed.

ARTHUR MITCHELL, Supt.

F. R. CLARK, Mine Foreman.
JOHN HARE, Fire Boss.

RALEIGH COAL & COKE COMPANY.

Series Nos. 955, 956 & 958. *Raleigh Nos. 1, 2 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. about fourteen miles west of Prince. The operations are in the Fire Clay seam and are conducted on the double entry system. At each of these mines there is a 5 ft. high speed fan, operated by electric power, which gives good results. The drainage is fair. The roof is good. Refuge holes are provided and haulways are in good shape throughout these mines. Rules are posted.

JAS. WHITE, Supt.

TERRANCE CONWAY, Mine Foreman.

Series No. 957. *Raleigh No. 3 Mine.*—This is a drift mine located on the Piney Branch of the C. & O. R. R. about fourteen miles west of Prince. It is operated on the double entry system in the Fire Creek seam. This is a large mine. The ventilation is produced by three 5 foot high speed fans, which are 3 separate openings to the outside No. 1, 5 & 10, where fans are stationed. The roof is of a hard slate. The coal varies in thickness from 4 to 5 feet intersected with rolls. This mine is a damp mine throughout. No gas given off. Drainage is fair. Rules are posted. Refuge holes on main haulway are provided.

JAS. WHITE, Supt.

JOHN McARTHUR, Mine Foreman.

Series No. 959. *Raleigh No. 5 Mine.*—This mine is a drift located about fourteen miles west of Prince on the Piney Branch of the C. & O. R. R. The workings are in the Sewell seam, operated on the double entry system. The ventilation is produced by a 5 foot high speed fan, which gives very good results throughout the mine. This mine is damp throughout. The seam is very irregular. The top is very brittle and full of kettle bottoms, and needs careful attention, which at present is being taken. This mine is worked exclusively by safety powder. No gas given off. Rules are posted.

JAS. WHITE, Supt.

THOS. ROBINSON, Mine Foreman.

Series No. 960. *Raleigh No. 6 Mine.*—This mine is a drift located about fourteen miles west of Prince on the Piney branch of the C. & O.

R. R. on Little Beaver. The operations are in the Fire Creek seam which averages about 4 feet in thickness. It operates on the 4 and triple entry system. This is a large mine and is equipped with modern appliances. All coal is handled by haulage motors not a mule in the mine. The ventilation is produced by two high speed 6 foot fans and they are now preparing to install two Seroccos, which with its improved cement overcasts and stoppings, and large airways will make it one of the modern mines of the day. It also has a separate traveling way for the men to go to and from their work. It is worked with safety powder. In the near future this mine will produce 3,000 tons per day. Rules are posted.

ERNEST CHILSON, Genl. Mgr.

JAS. WHITE, Supt.

EDW. ZWILLING, Mine Foreman.

BLUE JAY LUMBER COMPANY.

Series No. 961. *Blue Jay Mine*.—This is a drift mine located on the Piney Branch of the C. & O. R. R. about thirteen miles west of Prince. It is opened up on the double entry system in the Fire Creek seam. This is a new mine. The coal will average about 5 feet in thickness. This mine is up-to-date. Its ventilation is produced by an 8x4 foot Robinson fan which gives good results throughout the mine. Stone stoppings and well put up doors afford good ventilation to the workings faces. This mine is damp throughout. Rules are posted.

P. C. LYNCH, Supt.

PATRICK McQUADE, Mine Foreman.

SULLIVAN COAL & COKE COMPANY.

Series No. 962, 963, 964 & 965. *Sullivan Nos. 1, 2, 3 & 4 Mines*.—These are drift mines located on the mouth of Take in creek on the Piney Branch of the C. & O. R. R. about twenty-four miles west of Prince. These mines are opened up on the double entry system on the north and the south side of the hill. All the coal from the 10 pair of entries will be dumped over one large tipple that spans the valley. The ventilation at present is produced by two 8 foot Thayer fans, but they are making arrangements for two more 6 foot Serrocco fans. The coal will average in thickness about 5 feet. No gas found. These mines are damp throughout. They are partly using safety powder.

DR. J. A. WOOD, Supt.

WM. HOPE, Mine Foreman.

CRANBERRY FUEL COMPANY.

Series Nos. 966 & 967. *Sprague and Skelton Mines*.—These mines are slope mines located on the P. R. & P. C. R. R., about three miles west of Beckley. The Skelton mine has been abandoned for an indefinite period. The Sprague mine is opened up on the double entry system in the Beckley seam which will average about 4 feet in thickness. This is a very wet mine and full of rolls. It carries with it a very brittle draw slate, and needs very careful attention. The ventilation is produced by a 10 foot

Disc fan which gives fair results. This mine has a fire clay bottom, which makes the haulways very disagreeable. Rules are posted.

JOHN WILSON, Supt.

WEYMAN HURT, Mine Foreman.

CRANBERRY FUEL COMPANY.

Series No. 968. *Cranberry Mine*.—This is a shaft mine located on the P. R. & P. C. R. R. and is about five miles west of Beckley and about twenty miles west of Prince. It is operated on the triple entry system in the Sewell seam. It will average in thickness from 4 to 5 feet. The roof is of a very brittle nature. The ventilation being produced by an 18x7 foot Capell fan, which gives very satisfactory results. Traces of gas have been found in the north advanced workings, but it has been very well cared for. This mine is damp throughout. Its second opening meets lawful requirements as Prosperity Shaft is its second opening. Rules are posted. Blankets and stretchers are kept on hand.

JAS. CLARK, Supt.

JOHN T. DAVIS, Mine Foreman.

RICHARD ROBERTS, Fire Boss.

Series No. 969. *Prosperity Mine*.—This is a shaft mine located on the P. R. & P. C. R. R. about six miles west of Beckley and about twenty-one miles west of Prince. It is operated on the triple entry system in the Sewell seam and carries with it a very good slate roof. Traces of gas have been found in the main southwest workings, but it has been well taken care of. The ventilation is being produced at this mine by an 18x7 foot Capell fan, which gives very satisfactory results. The second opening to this mine is the Cranberry Shaft. Those two mines are worked exclusively by safety powder. Rules are posted.

JAS. CLARK, Supt.

JAS. NESBIT, Mine Foreman.

WM. HASLEM, Fire Boss.

MABSCOTT COAL & COKE COMPANY.

Series No. 970. *Mabscott Mine*.—This is a drift mine located on the Piney Branch of the C. & O. R. R. about sixteen miles west of Prince. The developments are in the Sewell seam, and is worked on the double entry system. The seam ranges from 4 to 5 feet in thickness. Ventilation is produced by an 8 foot Stone fan, which gives only fair results. They are now opening up on the 6th right entry to install a fan there, which will greatly help the ventilation. Rules are posted. The roof is fairly good. The general condition of this mine is moderate. The mine is wet throughout.

W. J. ELGIN, Supt.

W. D. LEE, Mine Foreman.

HOME COAL COMPANY.

Series No. 971.—*Abandoned*.

BECKLEY COAL & COKE COMPANY.

Series No. 972. *Beckley Mine*.—This is a slope mine located on the

Piney Branch of the C. & O. R. R. about seventeen miles west of Prince. The developments are in the Beckley seam and are conducted on the triple entry system. The ventilation is produced by a 12x7 foot Robinson fan, and with the present arrangements including doors and stoppings and overcasts the ventilation is fair throughout the mine. The drainage which is accomplished by steam pumps together with the general conditions of the entire mine, are good. There is traces of gas found in the south workings but are well cared for. At points the roof is very brittle. Rules are posted.

W. J. ELGIN, Supt.

RICHARD COBB, Mine Foreman.

WM. WATTIS, Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 973 & 974. *Eccles Nos. 11 & 12 Mines.*—These are shaft mines located on the Piney Branch of the C. & O. R. R. about twenty-two miles west of Prince, at the Junction of the Virginian R. R. No. 11 has been sunk, but as yet has not been developed. No. 12 has been opened up on the triple entry system, and is operating in the Beckley seam. The Sewell seam has been opened up in the air shaft on the triple entry system. This mine generates considerable gas and is worked exclusively by locked safety lamps. Safety powder is also used and all holes fired by battery. The ventilation is produced by an 18x7 ft. Capell fan, which gives very good results throughout the mine. A watering system has been installed. The second opening meets the lawful requirements. The air shaft is equipped with modern appliances. Rules are posted. Blankets and stretchers are kept on hand.

J. S. CHEYNEY, Supt.

L. BLENKINSOPP, Mine Foreman.

E. P. FLEMING, Fire Boss.

SLAB FORK COAL COMPANY.

Series Nos. 975 & 976. *Slab Fork Nos. 1 & 2 Mines.*—These are a series of drift mines located about fifty miles west of the Deepwater Junction of the C. & O. R. R., they are located on the Virginian R. R. They are operating in the Beckley seam on the double entry system. Nos. 3, 4 & 5 give off considerable amount of gas, but is well taken care of. A watering system has been installed, two large tanks on the hill which is self supporting by a pump from the river. The ventilation being produced by three Thayer high speed fans, which gives very good results. The seams vary from 4 to 5 feet. Rules are posted.

GASTON CAPERTON, Supt.

WM. HURT,

THOS. WATTIS, Fire Boss.

JOHN PRICE,

T. WARRICK,

Mine Foremen.

E. E. WHITE COAL COMPANY.

Series Nos. 977 & 978. *Nos. 1 & 2 Mines.*—These are shaft mines located

on the Shockley Branch of the Virginian R. R. one and one-half miles west of the Surveyor. They are opened up on the four entry system in the Beckley seam. They are new mines with a very promising outlook of being a large coal producer. These mines generate gas in their west workings, but are being very carefully looked after. The mines are damp throughout. The ventilation is being produced at present with a two inch steam jet in the up cast from their large steam pump, they are installing a 16x5 foot Robinson fan, and when installed, with their large air ways and substantial stoppings, will give great results to the mine. The second opening meets lawful requirements. This mine is equipped with modern appliances. Rules are posted. Blankets and stretchers are kept on hand.

E. E. WHITE, Supt.

FRANK McHUGH, Mine Foreman.

W. F. JENNINGS, Fire Boss.

Beckley, W. Va., June 28th, 1909.

HON. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

DEAR SIR:—

In compliance with the requirements of the Mine Law, I herewith submit my first annual report of the Ninth District, ending June 30th, 1909, of which I was assigned Raleigh County and upper part of Fayette County, in which district I made 31 regular inspections and 3 extra visits.

Operators of the mines in this district are endeavoring to comply with the law in every respect as defined. Many improvements are being made, notwithstanding, the present depression in having the mines idle one-half of the time. Recommendations that I have put before them, have had the same attended to without delay; have paid special attention to ventilation and timbering of working places, also roadways leading thereto.

In conclusion must say that I have received great courtesy from one and all. Thanking you for the advice and counsel you have given me, I am,

Respectfully yours.

LANCE B. HOLLIDAY,

Mine Inspector Ninth District.

MINE FOREMAN.

DUTIES OF MINE FOREMAN.

He shall see that there is an adequate amount of ventilation produced to ventilate all the working places in the mine he is in charge of, and that the same is in a sanitary condition and in compliance with the Mining Laws.

He shall see that all working places requiring timber that suitable props and cap pieces are provided and sent to each and every working place using timber, he shall see that where props are required that the

miner or miners working are and do secure their working plans in a proper manner.

For violating the above he shall upon conviction be fined not less than twenty (\$20.00) dollars, nor more than fifty (\$50.00) dollars for each and every offense.

He shall see that break-throughs are cut in all advancing headings or rooms every 80 feet, and when break-through is being cut the advancing heading or room shall be stopped until break-through is cut.

And in a mine generating gas he shall see that all headings and rooms being driven that the ventilation is carried by means of brattice cloth or boards, and that there shall be no obstruction placed behind the said brattice whatever, in the way of slate, timber or tools.

He shall see that the miners do not grip their holes on the solid, nor over-charge their holes; and that the same be tamped with clay to the face of bore hole. Any neglect on his part in violation of the aforesaid provisions he shall upon conviction be fined not less than fifty (\$50.00) dollars.

Where Fire Bosses are employed, they should, on arriving at the mine, whether it be drift-slope or shaft mine generating gas, before entering the mine shall examine the Fire Boss or Bosses' Report or Reports of Inspection and initial same, and hold consultation with said Fire Boss or Bosses and render them every assistance necessary if called for. For violating this section, he shall upon conviction be fined not less than fifty (\$50.00) dollars.

He shall see that the Mining Laws are carried out to the best of his knowledge and ability at all times. These rules are and do implicate the Assistant or Assistants if there be any.

HOISTING ENGINES.

I recommend that a record book be provided for the use of Machinist, who shall record in said book in writing the condition of the various parts of machinery connected with Hoisting Engine. The examination or inspection to be made daily before the time of hoisting coal or lowering of men commences. This record must be signed by the person making such examination, and shall at all times be kept in Hoisting Engine room or Engine house, as the same may be termed. And also a notice shall be placed outside of said engine house forbidding any person or persons from entering therein, only those authorized to do so.

SHAFT EXAMINATION.

I recommend that a competent person be appointed having an assistant at all times, who shall make an examination of the guides buntings and sides of shaft, and certify the working condition of same in writing in a book provided for the same at the mine where examination was made.

The person making such examination to sign for same in writing.

ROPES AND CAGES.

I recommend that a competent person be appointed, who shall and will examine or inspect the ropes and cages connected with any shaft that is used for the purpose of hoisting or lowering of men and coal; the same shall be recorded in a book in writing and signed by the person making such examination.

This examination to be made daily at a time specified by the Superintendent or Manager.

LANCE B. HOLLIDAY,
Mine Inspector, 9th District.

*CONDITIONS OF THE MINES IN THE NINTH DISTRICT AS EX-
AMINED SINCE MAY 16TH AND JUNE 30TH, 1909.*

RALEIGH COUNTY.

LAURA MINING COMPANY.

Series No. 907. *Laura Mine.*—This is a slope mine located at Red Star, on the Loup Creek Branch of the C. & O. Ry., six miles from Thurmond, operating the Sewell Seam. Double entry system, plan of working room and pillar. This mine has a bad roof, full of slips that are overlying one another, great care is taken in securing working plans and all roadways leading thereto. Safety powder and common black powder is used at this mine. Ventilation produced by a 12x7 ft. McCrimmon fan, which gives fair results.

THOMAS NICHOLS, Supt.

THOMAS MORGAN, Mine Foreman.

FAYETTE COUNTY.

THE STAR COAL & COKE COMPANY.

Series No. 911. *Star Mine.*—This mine is located at Red Star, on the Loup Creek Branch of the C. & O. Ry., six miles from Thurmond. The mine is opened out on the double entry system, operating the room and pillar system, in the Sewell Seam.

The roof is of a brittle nature and the mine in some sections being dry and dusty. This mine gives off gas freely, and is carefully watched. Black powder is used, but shot-firers are employed. Clay tamping used. Ventilation being produced by a 10x5 1-2 ft. Capell fan, which gives fair results.

DAVID EVENDOLL, Supt.

PETER EVENDOLL, Mine Foreman.
HENRY PRICE, and RICHARD OWENS, Fire Bosses.

COLLINS COLLIERY COMPANY.

Series No. 912. *Collins No. 1 Mine.*—This a drift mine, located on the Loup Creek Branch of the C. & O. Ry., seven miles from Thurmond, opened

out on the double entry system, operating the Sewell Vein, on the room and pillar. This mine is damp throughout. The bottom is soft. Part of this has a rock roof, and other parts have heavy draw slate, which requires close attention. No gas detected in the mine at all. Black powder is used at present. Shot-firers employed, tamping with clay. Ventilation being produced by an 18 foot Clifford fan, which is giving satisfactory results.

FRED DIXON, Jr., Supt.

J. W. WEDGEWOOD, Mine Foreman.

Series No. 913. *Collins Nos. 2 & 3 Mines*.—These are drift mines, opened out on the double entry system, in the Sewell Seam, located on the Loup Creek branch of the C. & O. Ry., seven miles from Thurmond. These are very old mines opened out on the old system, pillar and slate system. The greater part of these mines is robbing. These mines are damp throughout, having a very soft bottom, and also a heavy roof, which needs close attention. At present black powder is being used. Shot-firers employed. Ventilation being produced by an 18x7 ft. Clifford fan which gives good results. All holes stemmed with clay.

FRED DIXON, Jr., Supt.

J. W. WEDGEWOOD, Mine Foreman.

FAYETTE COUNTY.

WHITE OAK FUEL COMPANY.

Series No. 914. *Wingrove Mine*.—This is a shaft mine located on the White Oak Branch, a branch of the Loup Creek Branch of the C. & O. Ry., nine miles from Thurmond, opened out on the triple entry system, room and pillar plan, operating the Sewell Seam. The roof is of a brittle nature and in parts sand stone, generates a small amount of gas, chiefly given off from the bottom or floor. Ventilation being produced by a Capell fan 16x5 ft., which gives good results. Drainage fair. This is a damp mine. Safety powder being used exclusively.

A. D. CALLAHAN, Supt.

JOHN HOLMES, Mine Foreman.

GEO. SCOTT, Fire Boss.

AUDY ASTON, ————

Series No. 915. *Scarbro Mine*.—This is a shaft mine located on the White Oak Branch, a branch of the Loup Creek Branch of the C. & O. Ry., nine miles from Thurmond, opened out on the double entry system, operating the Sewell Seam. This mine in parts has a very bad roof. It is wet throughout, generates gas, but is well taken care of. It is worked on the room and pillar plan. Safety powder used exclusively. Shot firers engaged who shoot all shots, also use clay tamping. Ventilation produced by 12x4 1-2 foot Capell fan, which gives very good results.

A. D. CALLAHAN, Supt.

MICHAEL BARREN, Mine Foreman.

RALPH BRADDON, Asst. Supt. FRED DIXON, Fire Boss.

Series No. 916. *Whipple Mine*.—This is a shaft mine, located at Whipple on the White Oak Branch, a branch of the Loup Creek Branch, of the

C. & O. Ry., ten miles from Thurmond. This mine is opened out on the triple entry system in the Sewell Seam. Pillar and stall plan. This is a very wet mine, and generates gas freely, and is well taken care of by the officials in charge. It has also a brittle roof, and requires close timbering. Safety powder is used exclusively, clay tamping shot firers engaged, who shoot all shots. Ventilation is produced at the mine by a 15x5 1-2 feet Clifford fan, which gives good results.

W. FARRELL, Supt.

SAMUEL HALE, Mine Foreman.

S. COOPER, Fire Boss.

JOHN LIGHTFOOT, ———

Series No. 918. *Oakwood Mine*.—This is a shaft mine located at Carle on the White Oak Branch, a branch of the Loup Creek branch of the C. & O. Ry., ten miles from Thurmond. This mine is opened out on the triple entry system in the Sewell Seam, and is naturally damp and generates gas, but is well taken care of by the officials. Taking it throughout is has a fairly good roof. This mine is worked exclusively with safety powder, and all holes tamped with clay, shot firers who shoot same. Ventilation produced by a 20x8 foot Capell fan, which gives good results.

E. COCKBURN, Supt.

W. A. JONES, Mine Foreman.

THOS. HARRINGTON, Fire Boss.

STUART COLLIERY COMPANY.

Series No. 919. *Parral Mine*.—This is a shaft mine on the White Oak Branch, a branch of the Loup Creek Branch, of the C. & O. Ry., fifteen miles from Thurmond. This mine is opened out on the triple entry system, operating in the Sewell Seam. Room and pillar system. This mine gives off gas freely, but is taken care of. This mine has a treacherous roof and requires close timbering. The gretaer portion of the mine is damp, safety powder is used exclusively. Clay tamping used, shot firers appointed to fire all shots. Ventilation produced by an 18x7 foot Capell fan, which gives good results throughout the mine. All safety appliances in good working condition.

EVAN COCKBURN, Supt.

JOHN POWELL, Mine Foreman.

TEDDY MILLS, Fire Boss.

Series No. 921. *Stewart Mine*.—This is a shaft mine located at Stuart on the White Oak Branch, a branch of the Loup Creek Branch, of the C. & O. Ry., sixteen miles from Thurmond. This mine is opened out on the triple entry system, operating the Sewell Seam. Room and pillar plan. The mine generates freely. Comparatively wet in general. The roof in this mine is fairly good. Safety powder used exclusively, clay tamping, shot-firers engaged who shoot all shots. Ventilation is produced by an 18x7 foot Capell fan, which gives good results.

JOSEPH HARRIMAN, Supt.

MICHAEL BRENNAN, Mine Foreman.

JAMES M. DONALD, Fire Boss.

NICHOL COLLIERY COMPANY.

Series No. 922. *Nichol Mine*.—This is a slope mine at Glen Jean located on the Loup Creek branch, of the C. & O. Ry., seven miles from Thurmond, opened out on the double entry system, operating the Sewell Vein, room and pillar plan. This is a damp mine generally, but generates gas freely and requires every attention on the part of the official. They use safety powder exclusively. Ventilation being produced by a 10x5 foot Capell fan, which gives good results.

F. SHARPE, Supt.

W. A. WATKEYS, Mine Foreman.

THOMAS MASON, Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 923, 924 & 925. *Sun Nos. 1, 2 & 3*.—These mines are located on the Loup Creek Branch of the C. & O. Ry., eight miles from Thurmond. These are a group of mines within another. The coal is taken by slope and shaft, opened out on the double entry system in the Sewell Vein. The Tucker section of the mines has a very heavy draw slate and has a tendency to be dry. While the Price section of this mine has a favorable roof. This mine is worked in the pillar and stall plan. In the Price section the drainage is only moderate and also generally free of gas, which requires careful attention. Safety powder is used and holes tamped with clay. Ventilation is produced by two fans, one stationed on the head of No. 3, one on the head of No. 1, 12x4 1-2 foot Clifford Type high speed, one on the head of No. 5, 15x5 1-2 foot Capell fan, which gives good results.

JAMES MARTIN, Supt.

ZACK EVANS, Mine Foreman.

J. L. NELSON, JOHN MILLEAR COPE, JNO. ALLENBAUGH,

Fire Bosses.

RALEIGH COUNTY.

McKELL COAL & COKE COMPANY.

Series No. 939. *Graham Mine*.—This is a drift mine located at Graham Branch of the Loup Creek branch on the McKell line, about fifteen miles from Thurmond, opened out on the double entry system. Room and pillar plan of working, operating the Sewell Seam. Has a brittle roof in most parts of the mine, and requires close timbering. No gas detected in this mine. Ventilation produced by a 9x4-six ft. Capell fan, gives good results. Safety powder is used exclusively.

F. HINDSON, Supt.

FRANK BEARD, Mine Foreman.

Series No. 940. *Tam Roy Mine*.—This mine is located at Tamroy, Branch of Loup Creek Branch, on the McKell line, 18 1-2 miles from Thurmond. Opened out on the four entry system, working the Sewell Seam. Drainage only moderate. Has a brittle roof. No gas detected in this mine. Its principal working at present is entry work. They are

making developments for its future operation for a large output when fan is completed, which is about in readiness and will give better results, but at present is worked by furnace and results are only moderate. The mine is worked with safety powder and clay tamping is used.

F. HENSON, Supt.

O. NUCKLES, Mine Foreman.

PINEY MINING COMPANY.

Series No. 951. *Riley Mine No. 3.*—This is a drift mine opened out on the double entry system in the Sewell Seam. The mine is located on the Piney Branch of the C. & O. Ry., fourteen miles from Prince, its coal having to be hauled two miles by tramway to tippie at railway. This mine is a damp mine and has a very heavy draw slate, which requires very close timbering.

It is worked exclusively by safety powder and clay for tamping. Its ventilation being produced by a 6x1 1-2 foot Stem Type fan high speed, which only gives moderate results.

ARTHUR MITCHELL, Supt.

MORRIS McGUIRE, Mine Foreman.

RALEIGH COAL & COKE COMPANY.

Series No. 955. *Raleigh No. 1 Mine.*—This is a drift mine located on the Branch of the C. & O. Ry., on the Piney River, about thirteen miles from Prince. This mine is principally robbing. Ventilation produced by a 6x1 1-2 foot high speed Stine type fan, which gives good results. Safety powder being used and clay for tamping. No gas given off. This mine being comparatively damp throughout.

J. P. WHITE, Supt.

TERRENCE CONWAY, Mine Foreman.

Series No. 956. *Raleigh No. 2 Mine.*—This is a drift mine on the Piney River Branch of the C. & O. Ry., about thirteen miles from Prince. The mine is principally robbing, which requires extra precaution and close attention to timbering. Ventilation being produced by fan 6x1 1-2 feet Stine Type high speed, which gives good results. This mine is more or less damp throughout. Safety powder being used exclusively—tamping with clay.

J. P. WHITE, Supt.

TERRENCE CONWAY, Mine Foreman.

Series No. 957. *Raleigh No. 3 Mine.*—This is a drift mine opened out on the double entry system, having a dip of 3 1-2%. Located on the branch of the Piney River of the C. & O. Ry., about twelve and one-half miles from Prince. The operations are all in the Fire Creek Seam, Method Room and Pillar system. In sections it carries a very brittle roof—some parts of roof are sandstone, everything in the mine going to the dip. Drainage only moderate. This is a very large mine, pretty well damp throughout. No gas observable. The mine is ventilated by three 6x1 1-2 feet high speed Stine type electric fans, which only give moderate results. The company is proposing to put in Sirroco fans, which will

then be able to give better results. This mine is worked exclusively on safety powder.

J. P. WHITE, Supt.

JOHN McARTHUR, Mine Foreman.

Series No. 959. *Raleigh No. 5 Mine*.—This is a drift mine located on Little White Stick on the Piney Branch of the C. & O. Ry., and is about fourteen miles from Prince, opened out on the double entry, working the Sewell Seam. This is a very wet mine throughout, and has a heavy draw slate and requires great care in securing the roof. The mine is worked exclusively with safety powder, clay tamping and no gas found. Ventilation being produced by fan 6x1 1-2 feet Stine type slow speed.

J. P. WHITE, Supt.

SAM ROBERTSON, Mine Foreman.

Series No. 960. *Raleigh No. 6 Mine*.—This is a drift mine located on Little Beaver, one mile from the Branch of the C. & O. Ry., on Piney River, about thirteen miles from Prince. This mine is opened out on the four entry system in Fire Creek Seam on the pillar and room plan. Its drainage is only moderate. No gas being detected. The mine has a heavy draw slate and requires close attention. Ventilation is produced by two six 1 1-2 foot high speed Stine type fans, power used is electric which gives fair results. The mine is worked exclusively with safety powder. Clay tamping used.

J. P. WHITE, Supt.

W. ZWILLING, Mine Foreman.

BLUE JAY COAL AND LUMBER COMPANY.

Series No. 961. *Blue Jay Mine*.—This is a drift mine opened out on the double entry System in the Fire Creek Seam, working on the Room and Pillar System. Is damp throughout and has a very heavy draw-slate. No gas detected. Its ventilation being produced by a Robinson fan 8x2 1-2 feet which gives very good results. Safety powder used exclusively and clay used for tamping.

P. C. LYNCH, Supt.

PATTON McQUADE, Mine Foreman.

CRANBERRY FUEL COMPANY.

Series No. 966. *Sprague Mine*.—This is a slope mine, located on Piney River and Paint Creek, branch of the C. & O. Ry., fourteen miles from Prince, on the double entry system. This mine has a heavy draw slate, which is treacherous at times. Opened on the pillar and room system. Its drainage is only moderate. This mine is worked exclusively by a safety powder, and clay for tamping. No gas given off. Its ventilation being produced by a 10x2 1-2 foot Stine type fan, which only gives moderate results. Have recommended that the speed of the fan be increased.

JOHN WILSON, Supt.

WAYMAN HURT, Mine Foreman.

Series No. 968. *Cranberry Mine*.—This is a shaft mine, located on the Piney River off the Paint Creek Branch of the C. & O. Ry., eighteen miles from Prince. It is opened up on the double entry system, operating the

Sewell Seam, working on the pillar and stall plan. It has a bad slate roof in most parts of the mine, and requires careful timbering. Small amount of gas given off, which is well diluted. Its ventilation being produced by an 18x7 foot Capell fan, which gives very good results. Safety powder being used exclusively, and all holes tamped with clay. Shaft is well equipped,, and provided with safety signals.

JAMES CLARKE, Supt.

JOHN DAVIS, Mine Foreman.

RICHARD ROBERTS, Fire Boss.

Series No. 969. *Prosperity Mine*.—This is a shaft mine, located on the Piney River of the Paint Creek Branch, of the C. & O. Ry., eighteen miles from Prince. It is opened up on the double entry system Sewell Seam. This mine has a slate roof, its bottom being of a soft nature requires careful timbering. Generates a small amount of gas which is well cared for. Worked on the pillar and stall plan. Its ventilation beng produced by an 18x7 foot Capell fan, which gives very good results. Safety powder being used exclusively and all holes being stemmed with clay. Shaft is properly equipped, and provided with safety signals.

JAMES CLARK, Supt.

JAMES NESBIT, Mine Foreman.

WILLIAM HASLAM, Fire Boss.

MABSCOTT COAL & COKE COMPANY.

Series No. 970. *Mabscott Mine*.—This is a drift mine located on the Piney Branch of the C. & O. Ry., and sixteen miles from Prince, operating in the Sewell Seam, on the double entry system. The greater portion of this mine is robbing. The ventilation being produced by a Robinson fan 8x4 feet, giving fair results. The draw slate is very treacherous and requires careful timbering. Drainage moderate. Safety powder used.

J. R. KREBBS, Supt.

W. D. LEE, Mine Foreman.

BECKLEY COAL & COKE COMPANY.

Series No. 972. *Beckley Mine*.—This is a slope mine located on the Piney Branch of the C. & O. Ry., seventeen miles from Prince, operating in the Sewell Seam. Double entry system room and pillar plan. The slate in this mine if of a brittle nature, other section has a fairly good roof, still requires careful timbering. Drainage good. Safety powder used throughout. Ventilation produced is by Robinson fan 10x5 feet, giving good results.

G. R. KREBBS, Supt.

COBBS, Mine Foreman.

WILLIAM WATTIS Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series No. 973. *Eccles No. 11 Mine*. — This is a shaft on the Piney Branch of the C. & O. Ry., twenty miles from Prince, working the Beckley and Sewell Seams. This is comparatively a new mine, with a fairly good roof. This is a wet mine. The lower seam of Beckley

gives off considerable gas. Safety powder is being used exclusively. Ventilation being produced in this mine by an 18x7½ ft. Capell fan which gives very good results.

JAMES MARTIN, Supt.

L. L. BLENKINSOPP, Mine Foreman.

D. G. EDWARDS, Fire Boss.

TENTH DISTRICT.

GENERAL SUMMARY OF THE TENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYES.								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Mercer -----	31	13	1,442	48	22	722	2,234	390	309	699	2,933	2,103,263	220,646
M'Dwl (prt)	24	133	2,086	22	6	1,013	3,127	546	758	1,304	4,431	2,560,192	383,870
Totals..	55	146	3,528	70	28	1,735	5,361	936	1,067	2,003	7,364	4,663,455	604,516

OFFICE OF THE MINE INSPECTOR OF THE 10TH DISTRICT.

Bramwell, W. Va., March 31st, 1909.

HON. JOHN LAING,

Chief of the Department of Mines.

Charleston, W. Va.

DEAR SIR:—

I herewith submit my report covering the period from July 1st, 1908, to March 31st, 1909, inclusive, my resignation from the service taking effect upon the latter date.

During the time covered by this report I made 84 regular, and 34 special inspections in this District, and several joint inspections in the 11th District.

I regret to report a total of 110 individual accidents, 93 of which were non-fatal and 17 fatal; the fatal accidents with the exception of two were personally investigated by me. I found that the majority of the accidents could have been prevented, if the victims themselves had used ordinary precautions to protect themselves; several however were unavoidable, the danger being invisible and unexpected.

The number of fatalities for this District are greatly increased, owing to the two successive explosions which occurred in the Lick Branch mine on Dec. 29th, 1908 and January 12th, 1909, resulting in the death of 118 persons.

It is unnecessary to enter into a detailed account of these disasters here, as this Annual Report will contain the report of the Chief of the

Mining Department upon the same, and the results of the investigations made by himself and others.

I was obliged to prosecute quite a number of persons for various violations of the mining laws, the greatest number being for blasting coal from the solid. These prosecutions have resulted in lessening this dangerous practice, but has not eliminated it by any means. Upon my last inspection I found evidence that it was still practiced in some mines, but that the miners were more cunning about it. The hearty co-operation of the Mine Officials is necessary before the practice can be entirely eliminated, many of them gave me their support. A number of prosecutions being at the instance of Mine Superintendents, and in several cases they were the prosecutors. All those prosecuted were found guilty and fined as the law prescribes.

The work of inspection was interrupted in many ways; there were requests for assistance in the inspection of mines in the adjoining districts, several calls to appear at Charleston for various purposes, investigations of fatal accidents, rescue work in the Lick Branch explosions, and the subsequent investigation with a view of arriving at the cause.

There seems to be a growing inclination upon the part of the Operators and their representatives, to comply with the requirements of the law, and to render assistance to the Mining Department in enforcing it, which is a good indication that they are awakening to the fact, that a mine operated in conformity with the requirements of the law is more profitable than one which is not.

Improvements in the ventilation, drainage, etc., have been general throughout the district. Owing, however, to the poor condition of the trade during the year, many improvements in the way of better equipment, which was contemplated, has been postponed until business has a better outlook.

My experience has impressed me with the necessity of a specific law covering the blasting of coal. No inexperienced person should be permitted to do any blasting in the mine with any kind of explosive. A shot-firer's bill requiring that all coal be blasted by selected, experienced men, can be so framed as to impose no undue hardship upon either Operator or miners. The bill can also provide for shot-firers assistants, who can learn the business, and in that way keep up the supply of practical shot-firers.

A law requiring that Mine Foremen and Fire Bosses pass an examination to show their qualifications for the very responsible positions they occupy, should receive the support of every progressive Operator. There does not seem to be any reasonable argument in favor of selecting a man for the position of Mine Foreman or Fire Boss, who cannot pass such an examination, in preference to one who can, providing their practical experience is about equal. That many would receive Certificates of Competency who did not deserve them, through favoritism, influence or any other way, is not an argument against the system; but rather a suggestion of the possibility of a corrupt board of examiners; as Mine Foremen and Fire Bosses are selected at this present time, favoritism and influence are the principal factors except in rare cases. It would appear,

judging from some of the Mine Foremen in this district, that a premium is placed upon ignorance. They do not subscribe for a periodical dealing with their business, neither do they own a text book on the subject of mining, yet some of these men have charge of mines that are exceedingly dangerous under certain conditions, which they do not realize because of their limited experience, and for the reason that they do not benefit by the experience of others.

As I am retiring from the service of the Department, I cannot be accused of selfish motives if I suggest that an increase in the salaries of the Chief of the Department and the District Mine Inspectors, would result in more efficient mining men making application for the positions. This would enable the Chief of the Department to select more competent, better equipped men for the service; men whose knowledge of mining would command their respect of those with whom they come in contact. There seems to be at present a disposition to regard the Mine Department with scant respect; their ability and integrity have been criticised without restraint. Men who had neither practical, technical, or scientific knowledge of mining, have been deemed competent to investigate the Mining Department to determine if they were performing their duties properly, and also to investigate into the causes of mine explosions, etc. No greater contempt for the intelligence of the Department could have been shown, than this selection of men who were not their peers even in practical knowledge, to pass upon their competency and integrity. No good has been accomplished, but rather much harm; a feeling of contempt for the Mine Department of West Virginia, extending wherever in the states, our newspapers are read, has been engendered. It is to be hoped that politics will play a less important part in the selection of the personnel of the Department in the future than in the past.

In concluding my report I wish to thank the Operators and Mine Officials of this district for the many courtesies they have extended me during my occupancy of the Office; I wish also to thank you for your kindness, advice and assistance in the discharge of the duties of the Office.

Yours very truly,

D. R. PHILLIPS,

Inspector 10th District.

CONDITION OF THE MINES IN THE TENTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 1017 indicates the Tenth district and number 17 mine.

MCDOWELL COUNTY.

ALGOMA COAL & COKE COMPANY.

Series No. 1001. *Northfork Mine. Coaling Station.*—This is a drift mine located on Burk Creek one-fourth mile west of the town of North-

fork. The No. 3 Pocahontas seam is being operated. With a few exceptions the workings are all in pillars. Ventilation is produced by a 10 ft. fan, and is fairly well distributed. The roof and drainage are poor. The recovery of the pillar coal is attended by danger and the amount recoverable uncertain, which condition is due to previous mismanagement of the mine.

WM. J. BEURY, Supt.

GUY TAYLOR, Mine Foreman.

Series No. 1002. *Piney Mine*.—This mine is located on Buzzard Creek, about one mile north of Northfork. It is a drift opening, operating the No. 3 Pocahontas seam. The ventilation is produced by a 10 foot fan operated by an electric motor connected to the generator by an independent wire. The air current is divided into two splits, is well conducted and distributed. Permanent stoppings are built wherever required. The mine is well taken care of. There are about 135 men employed in the mine, the average output is 700 tons daily. Height of coal 5 ft. 11 inches.

WM. J. BEURY, Supt.

JOHN LOGAN, Mine Foreman.

ELK RIDGE COAL & COKE COMPANY.

Series Nos. 1003, 1004. *Elk Ridge Nos. 1 & 2 Mines*.—Are located three-fourths of a mile from Northfork. They are drift openings, operating the No. 3 Pocahontas seam; both openings deliver their coal to the same plane. They are ventilated by two 16 ft. fans each mine being ventilated separately. The air currents are very well distributed throughout the working faces. Upon my last visit I found the mine operated in conformity with the requirements of the law, except in the matter of check doors. Both mines together employ 110 to 120 employees inside. The output is 1100 tons daily. Thickness of seam 6 ft., 6 inches.

A. J. DALTON, Supt.

H. F. CREAKMAN, Mine Foreman.

GILLIAM COAL & COKE COMPANY.

Series No. 1005. *Gilliam Mine*.—This mine is located on the Northfork branch of the N. & W. R. R., two miles from Northfork. It is a drift mine operating the No. 3 Pocahontas Seam.

The ventilation is produced by an 18 ft. fan, the current being divided into 2 splits and is well distributed throughout the mine. Drainage and roof are good; the requirements of the law are fully complied with; daily output about 1000 tons, thickness of seam 5 ft. Number of men employed inside, 135. Haulage is done by electricity.

J. C. Campbell, Supt.

J. W. YOST, Mine Foreman.

INDIAN RIDGE COAL & COKE COMPANY.

Series No. 1007. *Indian Ridge Mine*.—Is located about four miles from Northfork on the Northfork branch of the N. & W. R. R. It is a drift mine in the No. 3 Pocahontas seam, which averages 5 ft. in thickness. Ventilation is produced by a 9 ft. Capell fan; the current is divided into 2

splits, and is well distributed to the working faces. Haulage is done by electric motors. Output of mine averages 1100 tons daily. Number of men employed 100. This mine is very efficiently managed. All requirements of the law were complied with at my last inspection.

A. D. RICE, Supt.

H. A. TAYLOR, Mine Foreman.

ROANOKE COAL & COKE COMPANY.

Series No. 1008. *Roanoke Mine*.—Is located on the Northfork branch three and one-half miles from Northfork. It operates the No. 3 Pocahontas seam which is 5 ft. 2 inches thick. About 100 employes are engaged inside the mine. The output is on the average 700 tons daily. Ventilation is produced by a 10 ft. fan, the current being divided into two splits, which are well distributed in the working faces.

Haulage is had by means of electric motors. The mine is very efficiently managed, and met the requirements of the law in every respect at the last inspection.

W. N. CUMMINGS, Supt.

W. L. MARSHALL, Mine Foreman.

W. C. EASLEY, Former Supt.

ARLINGTON COAL & COKE COMPANY.

Series No. 1009. *Arlington Mine*.—Is located on the Northfork branch four miles from Northfork. It is a drift opening in the No. 3 Pocahontas seam, and employs an average of 133 men in the mine. The output averages 800 tons daily. The height of seam is 5 ft., 2 inches. Haulage is done by electricity. Several gathering motors are used with great success. Ventilation is produced by an 18 ft. fan, the air current is divided into two nearly equal splits, is ample for all needs, being well conducted and distributed throughout the working faces. This management is to be commended for the excellent condition of the plant generally.

J. C. CAMPBELL, Supt.

ALFRED HALL, Mine Foreman.

GREENBRIER COAL & COKE COMPANY.

Series No. 1010. *Greenbrier Mine*.—Is located on the Northfork branch, about five miles from Northfork. It is operating the No. 3 Pocahontas seam. The average thickness is 5 ft. 10 inches. The output averages 800 tons daily. Haulage is done by electricity, two gathering motors are being used inside to assist in gathering the coal from the rooms and headings to the sidetracks and are considered a success.

Ventilation is produced by means of a fan, 13 ft. in diameter. The current is distributed in three splits and meets the requirements of the law in every respect. Much gas is occasionally found in one of the entries, but a slight trace only. Drainage, roof and roadways are in excellent condition. A water car is used to wet the dust in the few spots where it is found. The number of employes engaged inside the mine is on the average 130.

JAIRUS COLLINS, Supt. & Mgr.

THOS. B. WHITE, Mine Foreman.

McDOWELL COAL & COKE COMPANY.

Series No. 1011. *McDowell Mine*.—Is located at McDowell on the Northfork branch; it is a drift mine, operating in the No. 3 Pocahontas seam, and is 5 ft. 6 inches thick. The roof is good above the draw slate. An average of 161 persons are employed in the mine. The average daily output is 1200 tons. The ventilation is had by means of a 13 ft. Capell fan, and a 20 ft. ordinary type fan, distributed throughout the mine in five separate and distinct splits. On account of the tendency to an accumulation of dust in several entries, water sprays have been installed at intervals on the in-take airway, steam is introduced with the water in order to raise its temperature so as to have saturation in as short time as possible. This plan is very successful in laying the dust. Upon my last inspection I found the mine in compliance with law in every particular.

H. W. RAWSON, Supt.

J. C. LOVERING, Mine Foreman.

ASHLAND COAL & COKE COMPANY.

Series No. 1012. *Monitor Mine*.—This mine is a drift opening in the No. 3 Pocahontas seam and is located on the Northfork branch three-fourths of a mile from Ashland. It employs 85 to 90 persons inside the mine and has an average daily output of 450 tons. The coal averages 5 ft. in thickness. The roof and drainage are good. Ventilation is produced by a 20 ft. fan which produces an abundant supply which was not as well distributed upon my last inspection as it might have been. This was, in part owing to the fact that a change was being made in the air current, dividing it into three splits instead of two, and partly owing to the very temporary stoppings in the break-throughs, which I was assured would be remedied as soon as opportunity would permit. Haulage at present is by steam locomotives, but the installation of an electric plant is about completed.

T. J. O'NEIL, Supt.

R. J. WHITTINGTON, Mine Foreman.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY.

Series No. 1013. *Cherokee Mine*.—Is a drift in the No. 3 Pocahontas Seam, located one and one-half miles from Ashland on the Northfork Branch. The coal averages 5 ft. in thickness. About 65 persons are employed in the mine. The average daily output is 375 tons. Ventilation is supplied by a 10 ft. fan. The current is distributed in two splits, and upon my last inspection was very good at the face of the workings.

Roof and drainage are good. An attempt is made to comply with the requirements of the law.

JAIRUS COLLINS, Mgr.

GEO. R. SCOTT, Mine Foreman.

ASHLAND COAL & COKE COMPANY.

Series No. 1014. *Ashland Mine*.—This is a drift mine in the No. 3 Pocahontas seam, which averages 5 ft. in thickness. The mine employs 75

or 80 persons inside. The output is about 500 tons daily. Haulage is done by steam locomotives, which will be replaced in the near future by electric haulage. Ventilation is produced by a 16 ft. fan, the air current being divided into three splits, which is well distributed to the face of the workings. Roof and drainage are good.

The management are disposed to do everything possible to meet the requirements of the law.

T. J. O'NEIL, Supt.

ELLIS, SHEETS, Mine Foreman.

ZENITH COAL & COKE COMPANY.

Series No. 1015 & 1016. *Zenith Nos. 1 & 2 Mines.*—These mines are located at the terminus of the Northfork branch, near the town called Crumpler. They are drift openings in the No. 3 Pocahontas seam. They are connected inside, and deliver their output to the same tippie. The coal is 5 ft. thick. About an average of 86 persons are employed, and the output from both mines is about 675 tons daily. The ventilation is produced by two fans each 12 ft. in diameter, one for each mine. These mines during the winter months are very dry and dusty. The dust being due principally to a slaty rosh about two inches thick, which overlies the seam. The rosh disintegrates very rapidly when exposed to the atmosphere. It is not believed that this dust will explode under any conditions, but at the present writing a sample is in the experimental station at Pittsburg, and the operators of these mines are anxiously awaiting the results of the test. These mines changed owners during the year.

A. D. RICE, Mgr.

JOHN M. WATT, Mine Foreman.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY.

Series No. 1017. *Lick Branch Mine.*—This mine is located at Switch-back on the main line of the N. & W. R. R. There are two drift openings called old and new mine. The seam being mined is the No. 3 Pocahontas which is 8 ft. 2 inches thick at this place. The coal was being undercut by electric chain machines.

An explosion of coal dust occurred in the old mine on the 29th day of December, 1908, which resulted in instant death to fifty persons and injured three persons, one of whom died later in the Miners' Hospital. The explosion did not affect any portion of the new mine, and operations were resumed there in ten days after the explosion with a number of men who were strangers to the locality. After the mine had been in operation four days an explosion of greater force occurred in the new mine, extending over both mines resulting in death to all persons except one, who were in both mines, 67 in all.

After the first explosion every precaution thought of was taken to prevent a recurrence of such a calamity. Among other precautions a practical man experienced in mine matters, and of years of varied experience in mines was appointed as Mine Inspector, whose duty was to examine the whole mine daily; he was killed in the second explosion.

At the time of the last examination of the mine previous to the explo-

sion these mines were in good conditon, meeting all the requirements of the law. During the intervening period three changes of Mine Foremen were made, and when the mines were examined after the first explosion a number of places were found which were driven far in advance of the distance between breakthroughs permitted by law. A report of the results of the investigations by several of the Mine Inspectors made with a view of ascertaining the cause of the explosions will be found in this report. The officials in charge of the mine at the time of the explosion were

CHAS. W. ATKINSON, Gen. Mine Foreman.
CLEVE H. BOWERS, Mine Foreman.

Seres No. 1018. *Delta Mine*.—This mine is located near Switchback on the main line of the N. & W. R. R. It is a drift opening in the No. 3 Pocahontas seam, which at this place is 8 feet thick. Ventilation is produced by a 16 foot fan which is electrically driven. The air current is divided into two splits, which is well distributed throughout the working faces. An average of 90 persons are employed in the mine producing a daily output of 800 tons, the greater part of which is mined by electric chain machines. A slight trace of fire-damp is found occasionally in the main entries. The roof is frail in some parts of the mine, especially in the present pillar workings. Drainage is deficient in some parts. Haulage is performed by electric motors. Every effort is made to comply with the law or any recommendations of the State Mine Inspector.

E. H. JONES, Supt.

CHAS. W. ATKINSON, Gen. Mine Foreman.
CLEVE BOWERS, Mine Foreman.

Series No. 1019. *Shamokin Mine*.—This mine is located on the main line of the N. & W. R. R. near Switchback. It is a drift opening, operating the No. 3 Pocahontas seam which is 8 ft. thick; 18 inches of this is left up for roof. One hundred and twenty-two persons are employed in the mine. The average output is 1000 tons daily. Ventilation is produced by a 16 ft. fan, which gives ample supply. The current of air is divided into 3 splits well distributed to the face of the workings. A new fan is on the ground ready for installation. The lease is extensive and this provision is made for the future operation, the new fan being of much greater efficiency than the one in use at present. The roof is good generally. Drainage good. The law is complied with in every respect.

E. H. JONES, Supt.

H. J. REED, Mine Foreman.

Series 1020 & 1021. *Norfolk Nos. 1 & 2 Mines*.—This mine is located about one and one-half miles from Switchback on a branch from the main line of the N. & W. R. R. There are two drifts connected upon the inside, operating the No. 3 Pocahontas seam. One fan ventilates both mines and the output of both are delivered over the same tippie. The air current is divided into 3 splits and is well distributed through the workings. The average number of persons employed is 177. The output is 700 tons daily a large part of which is mined by electric chain machines. The roof in

the No. 1 mine is frail but improves in the No. 2 mine. Drainage is generally deficient. Haulage is done by electric motors. The mining law is very generally complied with.

E. H. JONES, Supt.

CHAS. W. ATKINSON, Gen. Foreman.

JOHN SHUFFLEBARGER, Mine Foreman.

Series No. 1022. *Angle Mine*.—Is located across the ravine from the Norfolk mine. It is a drift, opening in the No. 3 Pocahontas seam which is here 5 ft. 6 inches thick. A 20 ft. fan supplies ventilation which is ample for present needs; a new one will be installed in a few weeks, which is of the most modern make. The plans for the future ventilation of the mine includes the dividing of the air current into several splits. The number of persons employed in the mine is 78, producing an output of 400 tons daily, a small part of which is mined by a chain machine electric driven. The haulage is done with electric motors. The mine is well taken care of, and is operated in compliance with the requirements of the law, excepting in the matter of splitting the air current which will be done when the new fan is installed.

E. H. JONES, Supt.

W. H. PEARMAN, Mine Foreman.

ELKHORN COAL & COKE COMPANY.

Series No. 1023. *Elkhorn Mine*.—It is a drift opening in the No. 3 Pocahontas seam. It is located near Maybrey on the main line of the N. & W. R. R. The seam is 7 ft. thick. One hundred and seventy-two persons are employed in the mine, producing an output of 900 tons daily. Ventilation is produced by a 16 ft. fan; the current is divided into five splits, and is excellently distributed throughout the mine. The roof is very frail in some parts of the mine. Drainage is fair. Haulage is done with a steam locomotive. The solid coal is about exhausted; the greater portion of the coal now mined is in pillar workings. Great care is exercised at this mine to safeguard the employes from any possible accident. The law is fully complied with.

R. S. ORD, Supt.

L. B. HOLLIDAY, Mine Foreman.

MERCER COUNTY.

MILL CREEK COAL & COKE COMPANY.

Series No. 1024. *Coaldale Mine*.—Located on the main line of the N. & W. R. R. It is a drift mine, operating in the No. 3 Pocahontas seam, which is 9 ft. thick at this point. Ventilation is produced by a fan 18 ft. in diameter. It is divided into two separate currents. The mine employs 112 persons, and has an average output of 750 tons daily. The workings are practically all pillars. On account of the height of the seam and the frail nature of the roof, the recovery of the coal is difficult and dangerous. Haulage is done by electric motors. The officials exercise every precaution to minimize the dangers to their employes, exceeding the requirements of the law in many respects to accomplish this.

C. E. F. BURNLEY, Supt.

J. T. WOOD, Mine Foreman.

Series No. 1025. *Mill Creek West Mine*.—Is located near Cooper on the main line of the N. & W. R. R. It is a drift opening, in the No. 3 Pocahontas seam. The coal is 10 ft. thick of which two feet is left up for roof. There are an average of 56 persons employed in the mine, and the output is about 360 tons daily. Ventilation is produced by a 10 ft. fan, and is conducted through the working faces in one single current, and is well distributed. Haulage is done by electric motors. The roof is frail, as a rule, the pillar work being rather hazardous on this account. Very little solid coal remains in this lease. The best care possible under the conditions is taken to prevent accidents

C. E. F. BURNLEY, Supt.

J. W. JOHNSON, Mine Foreman.

Series No. 1026. *Mill Creek East Mine*.—Located across the narrow ravine from the West Mine, it being directly opposite. It is a drift mine in the No. 3 Pocahontas seam. The ventilation is produced by a 16 ft. fan and is ample. The workings are principally in pillars, very little solid coal being left in the lease. Twenty-nine persons are employed in the mine, producing an average of 160 tons daily. The roof is poor in the pillars. Drainage is deficient. Haulage is done by electricity. The law is complied with as far as conditions will permit.

C. E. F. BURNLEY, Supt.

J. W. JOHNSON, Mine Foreman.

Series No. 1027. *West Fork Mine*.—This is a drift mine located on the west fork of Mill Creek near Cooper station. It is a drift opening in the No. 3 Pocahontas seam. All of the workings are in pillars. The coal is 8 ft., 6 inches thick. The mine employs upon the inside 25 persons. The roof is very poor. Drainage is deficient generally on account of the influx of water through the breaks in the overlying strata after every rain.

C. E. F. BURNLEY, Supt.

J. W. JOHNSON, Mine Foreman.

Series No. 1028. *Tug River Mine*.—This mine is located on the head waters of Tug River. It is a drift opening in the No. 3 Pocahontas seam which is here 10 ft., 6 inches thick, 2 ft. of which is left up for roof, the overlying strata being very susceptible to the action of the atmosphere, which disintegrates it. There are 27 persons employed inside the mine producing a daily output of 165 tons. Ventilation is produced by a small fan, a temporary arrangement for the present the air current is well conducted to the face of the workings. Considerable improvement in the way of preparing for electric haulage has been done during the year. The haulage is done in the mine with electric motors and upon the outside by steam locomotives to the Coaldale Tunnel, where electric haulage is again used through to the Mill Creek Tipple. The total length to haul is about four and one-half miles. The law was being fully complied with upon the last inspection.

C. E. F. BURNLEY, Supt.

H. L. PRICE, Mine Foreman.

BUCKEYE COAL & COKE COMPANY.

Series No. 1029. *Buckeye South Mine*.—Is located about two miles

from Simmons on a branch road. It is a drift in the No. 3 Pocahontas seam which is 5 ft., 5 inches in thickness. Seventy-eight persons are employed in the mine, producing a daily output of 500 tons. Ventilation is produced by an 18 ft. fan the current being divided into two splits. An additional fan contemplated to assist the present one. No important improvement has been made during this year. The management are ever ready to accept and comply with any recommendations of the Inspector.

J. C. PACK, Manager. JOHN H. WILLIAMS, Mine Foreman.
R. F. HEWITT, Supt.

Series No. 1030. *Buckeye North Mine*.—This mine is located opposite the "South" mine in the same tract of coal; only a small number of employes are engaged in the mine. The output goes to the same tippie as that of the "South" mine. Ventilation is had by means of the same fan that ventilates the "South Mine." No improvement worthy of note has been made during the year. The law is being complied with so far as can be ascertained by inspection.

J. C. PACK, Manager. JOHN H. WILLIAMS, Mine Foreman.
F. R. HEWITT, Superintendent.

BOOTH-BOWEN COAL & COKE COMPANY.

Series No. 1031. *Booth-Bowen Mine*.—This mine is located on Simmons Creek about three miles from Simmons. It is a drift opening, operating the No. 3 Pocahontas seam. The ventilation is produced by a 20 ft. fan; the current of air is distributed throughout the mine in three splits. There are 93 persons employed in the mine producing a daily output of 800 tons. The haulage is performed by steam locomotives. The roof is good as a rule; drainage is also good; no improvement of any importance has been made since the last annual report.

J. P. BOWEN, Supt. E. F. BRAY, Mine Foreman.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY.

Series No. 1032. *Caswell Hemlock Mine*.—This mine is located two and one-half miles from Simmons on Simmons Creek. It is a drift opening in the No. 3 Pocahontas seam, which in this locality is 8 ft. in thickness. The ventilation is produced by a 14 ft. fan, and is divided into five splits well distributed to the working faces. Sixty-two persons are employed in the mine, the out-put being 500 tons daily. Haulage is performed by steam locomotives. The most important improvement since the last annual report, is the installation of a Robinson fan 14x6 ft., and the necessary electrical equipment to operate it. The roof is good generally. Drainage fair.

E. H. JONES, Superintendent. W. H. WALTERS, Gen. Mine Foreman.
R. F. SMITH, Mine Foreman.

Series No. 1033. *Caswell Elkhorn Mine*.—This mine is located on Simmons Creek opposite the "Hemlock" mine in the same lease. Its ventila-

tion is supplied by the same fan which supplies the "Hemlock mine". The number of persons engaged in the mine are 80, and they produce 600 tons daily. Haulage is done by steam locomotive. Roof is, as a rule, good. Drainage fair. This mine is very efficiently managed. Every effort is made to comply with the law.

E. H. JONES, Superintendent.

W. H. WALTERS, Gen. Mine Foreman.

R. F. SMITH, Mine Foreman.

LOUISVILLE COAL & COKE COMPANY.

Series No. 1034. *Goodwill Mine*.—This mine is located on Flipping Creek, one mile from the town of Goodwill. It is a drift opening in the No. 3 Pocahontas seam, very little work was done at this mine during the last nine months, and it has not been insected.

JAIRUS COLLINS, Manager.

J. W. MONTGOMERY, Mine Foreman.

Series No. 1035. *Louisville No. 2 Mine*.—This mine is located on Flipping Creek near Goodwill. It is a drift mine operating the No. 3 Pocahontas seam. Eighty-five persons are employed inside of the mine and produce an average output of 500 tons daily. Ventilation is produced by a 6 ft. fan assisted by a Booster fan 3 1-2 feet. in diameter, located in the interior of the mine. The current is in two splits well conducted but not of sufficient velocity to carry away the noxious gases and smoke. A fan is now being installed on the Goodwill side which will be a much needed improvement. Haulage is done by electric motors. Roof is generally frail and drainage good.

JAIRUS COLLINS, Manager.

J. W. MONTGOMERY, Mine Foreman.

Series 1036. *Louisville Klondike or No. 3 Mine*.—This is a drift opening in the No. 3 Pocahontas seam. The tract is small comprising 37 acres adjacent to the Louisville No. 2 lease. Thirty-two persons are employed inside the mine producing 225 tons daily. Ventilation is produced by a 5 ft. fan. The air current is very well distributed. Haulage is done by electric motors. The roof is fair. Drainage deficient.

JAIRUS COLLINS, Manager.

J. W. MONTGOMERY, Mine Foreman.

CEPHUS COAL COMPANY.

Series No. 1037. *Cephus Mine*.—This mine is located on Crane Creek two miles from Montcalm. It is a drift mine in the No. 3 Pocahontas seam. Ventilation is produced by a small furnace and was sufficient for the number of employes in the mine, which was 18 when last inspected. Very little work has been done during the year. Roof generally good. Drainage deficient.

P. J. VIGILIANI, Supt.

D. M. THOMPSON, Mine Foreman.

CRYSTAL COAL & COKE COMPANY.

Series No. 1038 & 1039. *Crystal Nos. 2 & 4 Mines*.—These are located on

Crane Creek. They are drift mines, operating the No. 3 Pocahontas seam. They are connected inside and are ventilated by the same fan which is 10 ft. in diameter. The air current is divided into two splits which are well distributed. Drainage is good in No. 4 but very deficient in No. 2. The roof is generally good. One hundred and thirty-one persons are employed in the mine; the daily out-put is 500 tons. An effort is being made to meet the requirements of the law.

W. J. PRITCHARD, Supt. C. C. THOMPSON & JOHN HANCOCK,
Mine Foremen.

AMERICAN COAL COMPANY OF ALLEGHENY COUNTY.

Series No. 1040 & 1041. *Crane Creek Nos. 1 & 2 Mines.*—These are drift openings, operating the No. 3 Pocahontas seam. The ventilation is produced by a 25 ft. fan located at the No. 2 opening; this will be supplemented in the near future by an additional fan on the No 1 mine side. One hundred and thirty-eight persons are employed in the mine, producing 1000 tons daily. Haulage is done by electric motors; the mine is in excellent condition complying with every requirement of the law..

T. O. DEAUMER, Supt. J. H. HUGHES, Mine Foreman.

Series No. 1042. *Pinnacle North Mine.*—Is a drift mine, located near the head of Crane Creek. It is operating the No. 3 Pocahontas seam. Ventilation is produced by a 16 ft. fan, and is conducted through the mine in one single current. The height of the seam is 4 ft., 6 inches. Fifty-seven persons are employed in the mine, producing an out-put of about 300 tons daily. Haulage is done by electric motors. Roof is good. Drainage fair. The mine is in good condition. The installation of a better fan and the splitting of the air current is contemplated.

T. O. DEAUMER, Supt. J. L. DEWEES, Mine Foreman.

Series No. 1043. *Blundon "South" Mine.*—This is a drift mine across the ravine from the Pinnacle "North" mine, the coal being delivered to the same tippie. The height of the coal is 4 ft. 6 inches. It is ventilated by a 16 ft. fan, the air is conducted in a single current to the working faces. Sixty persons are employed in the mine; a split in the air current is contemplated for the near future. Haulage is done by electricity; roof is good; drainage deficient. The mine is in good condition generally and is well looked after.

T. O. DEAUMER, Supt. J. L. DEWEES, T. D. PARSELL, Mine Foremen.

THOMAS COAL COMPANY.

Series No. 1044. *Thomas Mine.*—This is a drift mine located at the head of Crane Creek, and operating the No. 3 Pocahontas seam. One hundred persons are employed in the mine, daily output 700 tons. Height of coal 4 ft. 6 inches. Ventilation is produced by a fan 18 feet in diameter, the current of air is in two splits which are well distributed through-

out the workings. Haulage is done by electric motors; drainage deficient in some parts. Roof is generally good. The officials show a disposition to comply with the law or any suggestions made by the inspector.

W. J. PRITCHARD, Supt.

T. C. DOOLEY, Mine Foreman.

PAWAMA COAL & COKE COMPANY.

Series No. 1045. *Pawama Mine*.—This mine is located on the Widemouth Creek at Matoaka. It is a drift opening operating in the No. 3 Pocahontas seam, which is 4 ft. 6 inches thick at this place. Sixty persons are engaged in the mine. A daily output of 300 tons is produced. A 7 foot fan supplies the ventilation, which is conducted in a single current throughout the mine, and is well distributed. Haulage is done by mule power. The roof is good, drainage fair. The law is observed in relation to stretchers, blankets, lamps, etc.

J. C. STRAS, Supt.

B. H. ENGLISH, Mine Foreman.

WENONAH COAL & COKE COMPANY.

Series Nos. 1046 & 1047. *Weyanoke Nos. 1 & 2 Mines*.—These are drift mines in the No. 3 Pocahontas seam, located one mile from the town of Matoaka. The seam is 4 ft 6 inches thick; both mines deliver their output to the same tippie. The total number of persons employed in both mines are 91, and the combined output is 600 tons daily. No. 1 mine is ventilated by a 12 foot fan; the volume of air is divided into two splits which are well distributed. No. 2 mine is ventilated by a small furnace, which is soon to be replaced by a fan; the current of air is well distributed but is too weak for all purposes. Haulage is done by means of electric motors. Roof is generally good above the draw slate.

R. D. PATTERSON, Supt.

JOHN S. WOODYARD, Mine Foreman.

AMERICAN COAL COMPANY OF ALLEGHENY COUNTY.

Series No 1048.. *Piedmont Mine*.—This is a drift mine in the No. 3 Pocahontas seam, located on a branch of the Widemouth Creek. It is ventilated by a fan 8 ft. in diameter. The current is very well distributed. There were only 22 persons employed in the mine upon our last visit. The seam is difficult to mine on account of a stone parting in the middle. A new system of mining introduced by the present management seems to give satisfactory results.

T. O. DEAUMER, Supt.

C. R. IRVING, Mine Foreman.

SMOKELESS COAL & COKE COMPANY.

Series No. 1049. *Smokeless Mine*.—This is a drift mine in the No. 3 Pocahontas seam and is located near Hiawatha on the Widemouth Creek. The seam is 5 ft. thick, a band of slate varying in thickness from 2 to 6 inches is persistent in the middle of the seam, which makes mining rather difficult. An average of 30 persons are employed in the mine.

Ample ventilation is produced by a 12 foot fan. Roof is good, drainage deficient. Haulage is done by mules.

O. N. MOOMAW, Supt.

J. W. SHREWSBURY, Mine Foreman.

HIAWATHA COAL & COKE COMPANY.

Series No. 1050. *Hiawatha Mine*.—This mine is located on the Widemouth branch at Hiawatha station. It is a drift opening operating the No. 3 Pocahontas seam which is 4 ft., 8 inches thick here. Ventilation is produced by a 14 ft. fan and is in two separate splits well distributed to the face of the workings. 80 persons are employed in the mine producing an average output of 400 tons daily. Haulage is done by a steam locomotive, but preparation is being made for electric haulage; roof is good; drainage good; the mining law is observed.

O. N. MOOMAW, Supt.

W. M. NUNN, Mine Foreman.

SPRING COAL MINING COMPANY.

Series No. 1051. *Spring Mine*.—Is located on the Widemouth branch at Springton. It is a drift opening operating the No. 3 Pocahontas seam. It is ventilated by a 16 ft. fan. The air current is in two splits, fairly well distributed. One hundred and eighteen persons are engaged inside the mine. The output is about 400 tons daily. The average height of seam is 4 ft., 4 inches. Haulage is done by steam locomotive. Roof is generally good. No improvement worthy of note has been made since the last annual report except in splitting the air current.

M. G. SAUNDERS, Supt.

H. H. HONAKER, Mine Foreman.

WONONAH COAL & COKE COMPANY.

Series No. 1052. *Wenonah Nos. 1 & 2 Mines*.—These are drift openings into the same lease located at the head of the Widemouth Branch. They are operating the No. 3 Pocahontas seam, which is here 4 ft. thick. A 16 ft. fan supplies an abundant ventilation, which is well distributed to the face of the workings. Forty-seven persons are employed in the mine, and the average daily output is 300 tons; Haulage is done by electric motors. Roof is good generally; Drainage deficient.

E. L. HARRIS, Supt.

ED. LUCAS, Mine Foreman.

ELEVENTH DISTRICT.

GENERAL SUMMARY OF THE ELEVENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYEES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
M'Dwl (prt)	99	47	3,903	1,036	206	2,389	7,534	1,114	1,518	2,624	10,158	6,854,877	1,349,659
Totals--	99	47	3,903	1,036	206	2,389	7,534	1,114	1,518	2,624	10,158	6,854,877	1,349,659

Bluefield, West Virginia, July 3, 1909.

HONORABLE JOHN LAING,

Chief Department of Mines,

Charleston, West Virginia.

DEAR SIR:—

I have the honor to submit herewith my first Annual Report as Inspector of Mines of the 11th District, dating from the time of my appointment January 4th, 1909 and ending June 30th, 1909.

The number of inspections being 92. Number of extra visits to mines pertaining to fatal accidents, and ventilation—38. Number of openings not in operation owing to the depression in coal business, five. New mines opening in this District, eight.

I take pleasure in stating that I have received very courteous treatment, and the co-operation of both Operators and Mine Officials, while on my duty during the part of term I have served, for which I desire to publicly extend my thanks.

I have made every effort possible to visit and inspect all mines in the District as often as my time would permit. In mines where I had an occasion to call the attention to the ventilation and other defects, the mine Officials have always been willing to remedy them within a reasonable length of time, so in no case was it necessary to bring prosecutions as to better the ventilation and other defects that were found. I find the greatest difficulty is in getting the ventilation properly distributed and

conducted to faces of all workings. The distribution of the air lies mostly to the Mine Foreman in charge, and should be more closely looked after. If this is done the sanitary conditions of the mines throughout the coal fields would be much better.

I am pleased to state that throughout this district overcasts are being constructed in general, and the necessary splits are being made to comply with the Mine Laws.

It is also gratifying to know that steam locomotives are being abandoned rapidly in this field.

Before this issue is put before the public, there will be only two companies of the 11th District that are using steam locomotives. These being Mohawk Coal and Coke Company, at Mohawk, and Turkey Gap Coal and Coke Company, at Ennis.

The Powhatan Coal and Coke Company has used steam locomotives for years, but has abandoned them and replaced by electric motors, and the results are excellent.

Section 13 of the Mining Law reads: "It shall be unlawful in all Mines where gas is generated in dangerous quantities to use any other mechanical power for ventilating purposes except fan power," it should also read that the fans that are installed for ventilating purposes at mines where gas is generated or not, should be so constructed as to reverse the air current in case of an emergency, and should be in operation both day and night.

Where gas is liberated or not, Fire Bosses should be employed to see that the working faces are in a safe and proper condition, and to inspect all old workings and old falls in case the liberated gas may have accumulated from the falls which may occur.

The mines in this District where no gas has been detected, yet in drawing the pillars considerable gas may be liberated from the fall, and in this case, such mines would be considered safe to-day or to-morrow may be one of the most dangerous mines we have in the state. These dangers were thoroughly demonstrated in the Turkey Gap Mine on June 3rd, which is shown on their report in this issue.

ACCIDENTS.

I am sorry to say that the fatal accidents in the 11th District are very numerous, of which I have kept no record. These accidents are due to the foreign laborers, as they are totally ignorant of the dangers they have to encounter in the coal mines. The greatest portion of these accidents are caused where miners are starting a break-through, or turning a new room. They do not use the necessary precaution, and especially in the lower end of the Elkhorn Field, where they have from 6 inches to 2 feet of drawn slate which lies very loose above the coal at times, and as soon as the miner commences to undercut his coal it is very likely to fall, unless great care is taken by the miners to avoid an accident. All through the Elkhorn field there is another dangerous proposition what we term the "Kettle Bottom," which is very hard to detect even with the most practical men. The miners or laborers in any mine may be testing

the roof, and it may seem absolutely solid, and nothing to observe, yet the slightest jar relieves the Kettle Bottom and it falls, which has been the case repeatedly in this district.

Another danger the miners in the Pocahontas Field have to contend with, and which also increases the number of fatal and non-fatal accidents in this field, is the invisible slips, which run in this coal with no regularity. The miner may have his undercut nearly finished, and the coal may sound perfectly solid, and the next minute it may fall without the least warning, if it is not properly spragged as it ought to be. Too much attention cannot be paid by the Superintendent, Mine Foreman and all other Assistants as to instructing the miners of the necessity of keeping all undercuts well spragged no matter how solid they may sound, also see that the men have the material to do it with.

More energy should be put forth by the Superintendent, Mine Foremen and all other assistants throughout this district to reduce the number of fatal and non-fatal accidents. Several serious and non-serious accidents have occurred in this district owing to the way the impractical miners use the explosives. In several cases men have been burned while filling the cartridges, and others have been burned by mis-shots, some by going back on the shots too soon, and we have had some narrow escapes with shots being blown out with black powder.

The Mine Department has issued instructions to all Operators pertaining to shot inspectors, black powder, blasting and other dangers pertaining to blasting, which goes into effect July 15th, 1909, and will reduce the danger which now confronts the mining industry.

I wish to publicly state the method and system on which the United States Coal and Coke Company is operated, which I consider one of the best in the field. With the number of employes they employ, the accidents are very limited.

The standard of ventilation of the United States Coal & Coke Company's mine is that not less than 10,000 cubic feet of air per minute must be passing through the last cross-cuts in each pair of headings, no allowance being made for the anemometer, and one sixth of the velocity as shown being subtracted on account of the anemometer being held in the center of the heading. Canvas check doors are hung across the heading at every fourth room for the purpose of keeping the ventilating current traveling through the face of the rooms. Cross-cuts between the rooms are bratticed where required. Each Assistant Mine Foreman is supplied with a Pieler testing lamp, which burns wood alcohol, so that he may detect the smallest percentage of gas which might exist in the atmosphere of the mines. Samples of the air current passing through the different portions of the mines are taken periodically with special constructed apparatus, and are analyzed in the laboratory of the Company in the main office, for the purpose of detecting any smaller percentages of explosive gas, which cannot be detected by the use of testing lamps. Tests of the amount of dust carried by the air currents are also taken at stated periods.

Each working place in all the mines is examined every morning for bad roof, explosive gas, or any dangers which might exist, before the

workmen are allowed to enter. Each workman is visited in his working place by the assistant mine foreman once every two hours during the day. The number of assistant mine foremen employed is regulated by the number of men employed in the mine, no assistant being permitted to have more than 25 to 30 men in his charge.

The assistant mine foreman of any mine receives a premium of \$5.00 per month when no serious or fatal accident occurs in that mine during that month. Each mine foreman receives a premium of \$10.00 per month when no serious or fatal accidents take place at any of the twelve mines of the company. All serious or fatal accidents are reported to the main office by telephone immediately upon their occurrence, and a notice of the same is immediately issued and posted at the entrance of each mine, drawing the attention of the officials and miners to the accident, stating how it occurred, and warning them to be careful. All accident reports carry the name of the official immediately in charge of the section in which the accident occurs, and any official whose name appears too frequently on the monthly accident report is served with a notice of the same, and there have been cases where they have been discharged, the management considering that they were neglectful, or they would not have permitted so many accidents to occur.

The mines are all equipped with steel fans encased in steel casing, concrete foundations and connected with the mine entrance by concrete arches, said fans being of the latest design and each is capable of furnishing from 200,000 to 400,000 cubic feet of air per minute. The fan at the shaft mine is driven by steam, while the other thirteen are driven by electricity and directly connected to 300 horse power induction motors.

All main roadways in all mines are laid with 60 lb. steel, the flat headings with 40 lb., and the room headings with 30 lb. steel, while in the rooms 20 lb. steel is used. There are two feet of clearance between each side of the mine cars and the rib on all hauling roads throughout the mines. Man or refuge holes are cut in the sides of the headings, excepting room, headings 50 feet apart. The same are kept whitewashed, and the heading for five or six feet on each side of the man hole and the roof of the heading at the manholes are also whitewashed, so that they can be easily seen, and travelers on the heading will have no trouble getting out of the way of ingoing or outcoming trips.

No timbering is done on the hauling or traveling ways. Where the roof is bad the same is taken down and hauled to the outside or stored in the mines, and no dirt, slate, or rubbish is permitted to be strewn along the traveling ways or haulways.

Electric lights are placed at all cross headings. The electrical wiring is examined at all the plants monthly, by the electrical superintendent. All overcasts and stoppings are built of concrete or other non-bustible material.

Rules are posted in the different languages at the different mine entrances, defining the duties of the different employes, etc., which are signed by the president and secretary of the company, states in Rule number one that "It shall be the duty of each employe of this company to comply with the Mining Laws of this State."

In any place where explosive gas transpires from the coal or any place where it is likely that the advance workings will liberate gas, blasting is done by permissible powder that has passed the testing station at Pittsburgh, which powder is sold to the miners approximately at cost. The means of firing the explosives such as detonators, caps, fuses, etc., are furnished to the miners free of charge. The assistant mine foreman carries the squibs, caps, etc., with him when making his rounds during the day and they are furnished to the miner after the inspection of his hole, a thorough examination of his place, the amount of powder he proposes to use, etc. Where black powder is used it is issued to the miners in five pound canisters, the canisters belonging to the company.

It is also the duty of the assistant mine foreman to see that the timber is set where they think it is necessary, and it is not left to the judgment of the miner as to whether timber is necessary or not. The miner is not permitted to take the risks he would take if left to his own volition.

The Company employs two mine inspectors who visit the mines weekly, and make a thorough examination of the same to see that all rules and regulations as laid down are followed.

Air measurements are made weekly by the mine foreman and checked monthly by the Inspector.

An Emergency Hospital equipped with the latest improved instruments, and operating table, with the usual means of sanitation, two doctors in attendance, is established at Gary, for the purpose of giving efficient and immediate relief to any workmen who may be injured at any of the plants, and put him in the best possible condition for their removal to the State Hospital at Welch.

The sanitary and general condition of the town are well looked after, and a prize is paid yearly to the superintendent and outside foreman of the operation, which has the streets, alleys, and the town in general, the cleanest.

There are also six premiums paid to the householders for the best gardens, the neatest appearance of the yard, etc.

The central power plant which is located at Gary contains nine boilers of approximately 3800 horse power capacity, and has six electric units with a combined capacity of about 4300 Kilowatts. Two of the units are driven by cross compound Harrisburg engines, two are driven by cross compound Allis-Chalmers Corliss valve engines, and the other two are driven by Westinghouse turbines, one of which is a low pressure turbine and is operated by the exhaust steam from the reciprocating engines. They also have cooling towers for cooling the water that condenses the steam. This is the only plant in the United States in which the reciprocating engines, the high pressure turbines, the low pressure turbines with the cooling towers are all combined in the one plant.

In conclusion, I wish to thank the head of the Department for the assistance which has been rendered me during my term as Inspector of the 11th District.

Yours very truly,

WM. NICHOLSON,
11th District Mine Inspector.

CONDITION OF THE MINES IN THE ELEVENTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 1118 indicates the Eleventh District and number 18 mine.

McDOWELL COUNTY.

MOHAWK COAL & COKE COMPANY.

Series No. 1101. *Mohawk Mine*.—This mine is located on the Tug River, thirty-three miles west of Welch on the main line of the Norfolk & Western Railway. Ventilation is produced by an exhaust fan. The in-take being at the extreme end of the mine which is also used for the second opening, and makes the ventilation very good at all working places. Steam locomotives are used for haulage, which is strictly on the return air. All coal is cut by air machines. Drainage only fair. Oil used for illuminating purposes good. Safety lamps, stretchers, blankets and anemometer are kept at the mine as required by law. The sanitary conditions of the mine I consider good.

WILLIAM T. HETHERMAN, Supt.

KENNA HETHERMAN,

Mine Foreman.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL COMPANY.

Series No. 1102 & 1103. *Nos. 1 & 1½ Mines*.—These mines are located on branch line of the Norfolk & Western Railway, fifty miles southwest of Welch, working the Pocahontas No. 3 Seam. Ventilation is produced by a 15 ft. fan, 73 revolutions per minute, and giving 83,000 cubic ft of air. Ventilation is very good all through the mines. All stoppings of the main entry and cross entry are built of concrete. Overcasts are used. There are no doors in these mines, except check doors, which are used for ventilating the rooms. All coal is cut by electric machines. Haulage is done by electricity using no mules in the mines. Some parts of these mines are very dusty especially in the rooms. Notices are posted as required by law. Safety lamps, blankets, stretchers and anemometer are on hands. Maps have been furnished this office up to date. Mine Foreman records properly filled out. Second opening meets the requirements of law. Voltage of the mines is 250.

JAMES GOULD Supt.

W. H. BAKER Mine Foreman.

Series No. 1104. *No. 2 Mine*.—This mine is ventilated by a 12 ft. fan, and is able to produce 200,000 cubic feet of air per minute. All stoppings are built of concrete, and overcasts are used at each cross entry. Each entry has a separate current of its own. Coal is cut by electric machines. All machine cuttings are thrown back and not loaded out. Shot-firers are used. All shots are fired by batteries. Main entry of this mine is giving off considerable amount of gas. Mixed oil is used. Second opening meets the requirements of the law. All other equipment as pertaining

to the law is kept on hand at the mines. This mine with the present equipment is capable of producing 500 tons per day.

JAMES GOULD, Supt.

G. E. WHITTAKER, Mine Foreman.

L. A. CUNNINGHAM, Fire Boss.

Series No. 1105. *No. 3 Mine.*—This mine is ventilated by a 9 ft. fan, and is able to produce 75,000 cubic ft. of air per minute. Ventilation very good throughout the mine. All stoppings of main entry are built of concrete. All cross entries have overcasts. No explosive gas was found in this mine. Roof very good. Some kerosene oil used. All coal is cut by machines. Machine cuttings thrown back and not loaded out. All equipment required by law is on hand, and all records properly filled out.

JAMES GOULD, Supt.

C. H. RHODES, Mine Foreman.

HALL MINING COMPANY.

Series No. 1107. *Yukon No. 2 Mine.*—This mine is located on a branch line of the Norfolk & Western Railroad, forty-four miles southwest of Welch, working the coal seam known as War. Ventilation in this mine is produced by furnace. The air at the working faces is very insufficient. Most of this coal is shot from the solid with black powder. This mine is very dry at the working faces. The powder is taken into the mine in 5 lb. metallic canisters, as required by law. Break-throughs are driven at the proper distance. At the time of this inspection, the main entry was 250 ft. from the drift, and only had been operating a short while. No mine foreman record books on hand. No safety lamps, stretchers or blankets as required by law. A second opening was nearly completed. This mine with its present equipment is able to produce 75 tons per day.

H. M. MEYERS, Supt.

P. C. CORDLE, Mine Foreman.

Series No. 1108. *Yukon No. 1 Mine.*—Ventilation in this mine is produced by a 10 ft. fan, and is able to produce 45,000 cubic feet of air per minute. The ventilation at the working faces is very good. All stoppings in this mine are built of wood. All coal is shot from the solid with black powder. Only a part of the men using the permissible explosive. This mine is very wet throughout. Safety lamps, stretchers and blankets on hand as required by law. This mine with its present equipment is able to produce 200 tons per day.

H. M. MEYERS, Supt.

P. C. CORDLE, Mine Foreman

DRY FORK COLLIERIES COMPANY.

Series No. 1109. *William Mine.*—This mine is located on a branch line of the N. & W. Railway, forty miles southwest of Welch, working the coal known as the War Seam. Ventilation in this mine is produced by a 60 inch Sirocco fan, and is giving 45,000 cubic feet of air per minute, which is ample ventilation for this mine. This mine is driven on a double entry system. All stoppings in the main entry are built of concrete. Over-

casts are used. The air is split according to law. The coal in this mine is shot from the solid with shot-firers, all shooting is done at night.

The dust is properly watered down. No gas was observed. I consider the sanitary condition of this mine very good. All equipment required by law is furnished at the mines, and all records properly kept.

W. N. ROBINSON, Supt.

ELZA BLANTON, Mine Foreman.

FLAT-TOP COAL MINING COMPANY.

Series No. 1110. *Thomas Mine*.—This mine is located on a branch line of the N. & W. Railway, thirty-eight miles southwest of Welch, working coal known as the War seam. Ventilation in this mine is produced by a fan which is ample ventilation for this mine. Coal is 3 1-2 ft. thick with sand rock roof. It is very wet all through. No explosive gases liberated at the time of inspection. All coal properly mined and shot. Mine maps are furnished this office up to date. Mine Foreman records properly filled out. Stretchers, safety lamps and blankets on hand as required by law, also notices posted as required.

JAMES THOMAS, Supt.

JAMES THOMAS, Mine Foreman.

HURRICANE BRANCH COAL COMPANY.

Series No. 1111. *Huffer Mine*.—This mine is located on a branch line of the N. & W. Railway, nine miles from Iaeger, working the coal known as the Welch seam. This is a new mine. Ventilation is produced by a furnace, and is bad. The doors and stoppings are of very poor quality. All entries very low. Second opening did not meet the requirements of law. Oil used is of a fair quality. This mine from general observation was not getting the attention it ought to have by the foreman in charge. Recommendations were furnished by the Inspector for this mine.

D. C. TURPIN, Supt.

D. C. TURPIN, Mine Foreman.

HENRIETTA COAL COMPANY.

Henrietta Mine.—This mine is located on a branch line of the N. & W. Railway, thirty-six miles southwest of Welch, working the coal known as the Welch Seam. This is a new mine. Ventilation is produced by furnace which is very poor. Timbering is fairly good. At the time of inspection, the second opening did not meet the requirements of law. Coal is shot from the solid with black powder. Stoppings, brattice and doors were only fair. Considerable dust which apparently was neglected, not watered down. No notices were posted as required by law, and no foreman's record kept.

A. Z. LITZ, Supt.

M. A. HARLEY, Mine Foreman.

VIRGINIA-POCAHONTAS COAL COMPANY.

Series No. 1112. *No. 1 Mine*.—This mine is located on a branch line known as the West Va. South Western on Clear Fork, thirty-five miles

southwest of Welch. Ventilation is produced by a fan, and is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. All break-throughs are driven at the required distance. Drainage generally good throughout the mine. All loose rock is taken down where men travel. Coal dust is properly watered down, and miners are well supplied with posts. The second opening meets the requirements of the law. Oil used is of a fair quality. Powder is carried into the mine in 5 lb. Metallic Canisters. Stretchers and blankets are kept on hand, and all records are properly filled out.

JOHN STEWART, Gen'l Supt.

W. E. ALLEN, Mine Supt.

JOHN PEIL, Mine Foreman.

Series No. 1113. *East & West No. 2 Mine.*—Ventilation in this mine is produced by a 6 ft. fan which gives ample air for the size of the mine. Drainage is very good. The second opening meets the requirements of the law. Oil used is of a fair quality. All dust is properly watered down. Maps are furnished this office up to date. All records of mine foreman are properly kept, and all other necessary supplies as required by law.

JOHN STEWART, Gen'l Supt.

W. E. ALLEN, Mine Supt.

WILLIAM FARNE, Mine Foreman.

Series No. 1114. *Nos. 1, 2 & 3 Mines.*—Ventilation in this seam is produced by a fan and is well distributed to the working faces. Drainage generally good throughout the mines. Powder is carried into the mines in 5 lb. metallic canisters. All dust is properly watered down. Miners are well supplied with timber and posts. The second opening meets the requirements of the law. All other equipment as required by law on hands. All records properly filled out. No. 1 mine had not been working for sometime, owing to the depression in coal business.

JOHN STEWART, Gen. Supt.

W. P. FEMEY, Mine Foreman.

Series No. 1115. *No. 4 Mine.*—Ventilation in this mine is produced by a 7 ft. fan, which is giving 60,000 cubic ft. of air per minute which is well distributed to the working faces. Stoppings of the main entry are built of concrete, and all break-throughs are driven at the required distance. Drainage generally good. All loose rock is taken down where men travel. The second opening meets the requirements of the law. All miners were well supplied with posts, and all other supplies as required by law on hand.

JOHN STEWART, Gen. Supt.

J. W. RATCLIFFE, Mine Foreman.

W. E. ALLEN, Mine Supt.

Series No. 1116. *No. 5 Mine.*—This mine is located on a branch line of the N. & W. Railway on Dry Fork, forty-two miles south-west of Welch. This is a slope of 170 feet, working coal known as the War Creek seam. This mine is ventilated by an 8 ft. Thayer fan, which is producing 42,000 cubic ft. of air per minute, which is ample air for this mine. The air is

well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete, and the proper splits of the air current as required by law. All break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Electric appliances are used throughout this mine for hauling purposes. All coal dust is properly watered down. Miners were well supplied with timber and posts. This second opening meets the requirements of the law. The oil used is of a fair quality. All supplies as required by law on hands, also foreman records properly filled out.

JOHN STEWART, Supt.

JOHN CLARKE, Mine Foreman.

PREMIER-POCAHONTAS COLLIERIES COMPANY.

Series No. 1117. *No. 1 Mine.*—This mine is located on a branch line of the N. & W. Railway on Spruce Creek, eight miles from Roderfield, working coal known as the Welch seam. This is a new mine. Ventilation in this mine is produced by furnace, which gives ample ventilation for the present. Preparations were being made to install a fan. All stoppings are built of wood, and considerable shooting is done on the solid. Drainage only fair. All break-throughs are driven at the required distance. Powder is carried into this mine in 5 lb. metallic canisters. The oil used is of a fair quality. All supplies as required by law are on hands..

J. C. SANDERS, Supt.

T. N. DAUGHERTY, Mine Foreman.

Series No. 1117a. *No. 2 Mine.*—This is a new mine, ventilated by furnace which is ample ventilation at the present. Preparations were being made to install a fan at these works. Part of this mine is very dry. Some coal is shot from the solid with black powder. All loose rock is taken down where men travel. Miners are well supplied with posts and caps. All supplies as required by law are on hands. The oil used is of a fair quality..

J. C. SANDERS, Supt.

T. N. DAUGHERTY, Mine Foreman.

Series No. 1117b. *No. 3 Mine.*—This is a new mine, working coal known as the Welch seam. Ventilation in this mine is produced by furnace; preparations were being made to install a fan. All break-throughs were driven at the proper distance as required by law. Miners were well supplied with posts and caps. All supplies as required by law on hands.

J. C. SANDERS, Supt.

T. N. DAUGHERTY, Mine Foreman.

VAUGHAN COAL AND COKE COMPANY.

Series No. 1118. *Vaughan Mine.*—This mine is located on the main line of the Norfolk and Western Railway, fourteen miles west of Welch. The ventilation of this mine is produced by a fan, and is properly distributed to the working faces. Check doors were needed to ventilate the rooms. Stoppings were built of a fair quality. All break-throughs are driven at the required distance. Drainage is generally good. Powder is

carried into the mine in 5 lb. metallic canisters. Second opening meets requirements of the law.

R. M. PECK, Supt.

R. H. GILLEY, Mine Foreman.

BIG SANDY COAL AND COKE COMPANY.

Series No. 1119. *Big Sandy Mine*.—This mine is located on the main line of the N. & W. Railway thirteen miles west of Welch. It is ventilated by two fans. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. An extra force of men are employed putting in concrete stoppings along the main entry. All break-throughs are driven the required distance. Drainage generally good throughout the mines. Refuge holes in the main entry where men travel are at the proper distances, and are kept clean and whitewashed; all dust is properly watered down. Miners are well supplied with props and caps. The second opening meets the requirements of the law. Oil used is of a good quality. All supplies as required by law on hands, and all records properly filled out.

W. McFARLAND, Supt.

W. A. LILLY, Mine Foreman.

Series No. 1120. *Marytown Mine*.—Ventilation in this mine is produced by an eight foot Thayer fan. The distribution of the air is very weak at the working faces. The stoppings in the main entry are built of masonry. No overcasts are used, and more than the required number of men are working on this current. Break-throughs are driven at the required distance. Drainage is generally good throughout the mines. Refuge holes where men travel are at the proper distance and are properly whitewashed. All loose rock is taken down where men travel. Powder is carried into the mines in 5 lb. metallic canisters. Coal dust is properly watered down. Mines are well supplied with props and caps. The second opening meets the requirements of the law. The oil used is of a good quality. Notices are posted in the mines, and men who are employed are given a copy of the Mining Laws before they are allowed to work. All other requirements as to law are on hands. Mine foreman's records are properly kept.

WILLIAM McFARLAND, Supt.

A. G. SHORT, Mine Foreman.

J. B. B. COLLIERIES COMPANY.

Series No. 1121. *Hensley No. 3*.—This mine is located on the main line of the N. & W. Railway, twelve miles west of Welch. This mine is ventilated by an exhaust fan, which gives fairly good ventilation except in some places they are driven beyond the 80 ft. limit. Break-throughs in this mine are neglected. Drainage generally good. Refuge holes where men travel are not properly whitewashed and kept clear of obstruction. Coal is hauled from the side tracks by electricity, using 500 volts which is very dangerous in a thin seam of coal. No torch was used on rear end of motor trips. Powder is carried into this mine in 5 lb. metallic canisters. Mine is very moist. Miners well supplied with props and

caps. The second opening meets with the requirements of the law. Stretchers, blankets and mine foreman's records are on hands, and properly filled out.

D. M. WOODY, Supt.

K. L. BROGAN, Mine Foreman.

Series No. 1122. *Hensley No. 2*.—This mine is ventilated by a fan and ventilation is very good. Drainage poor. All break-throughs are driven at the proper distance. Powder is carried into the mines in 5 lb. metallic canisters. Miners are well supplied with props and caps. Oil used is of a fair quality. All other supplies, as required by law, are on hands.

D. M. WOODY, Supt.

K. L. BROGAN, Mine Foreman.

TWIN BRANCH MINING COMPANY.

Series No. 1123. *Twin Branch Mine*.—This mine is located on the main line of the Norfolk & Western Railway, ten miles west of Welch, and is ventilated by a 12 ft. fan, and the air is well distributed to the working faces. Main entry stoppings are made of concrete. The air current is split as required by law. All break-throughs are driven the required distance. Drainage generally good throughout the mines. All loose rock is taken down where men travel. Check doors are used to ventilate the rooms. Powder is carried into the mines in 5 lb. metallic canisters. All coal dust is properly watered down. Miners are well supplied with props and caps. Coal is hauled from side tracks by electricity using 500 volts, which is very dangerous where men travel. The second opening meets the requirements of the law. The oil used is of a good quality. All supplies, as required by law, are on hands.

D. M. WOODY, Supt.

C. P. WOODY, Mine Foreman.

MAHER COAL & COKE COMPANY.

Series No. 1124. *Maher No. 1 Mine*.—This mine is ventilated by an 8 ft. Stein fan, which is capable of giving 55,000 cubic feet of air per minute. The ventilation in this mine is very weak at the working faces. Break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Refuge holes where men travel are not in proper condition. Electricity is used for hauling purposes, and compressed air machines are used for cutting coal. Only ten pick miners used in the mines. Powder is carried into the mines in 5 lb. metallic canisters. The second opening meets the requirements of the law. Miners are well supplied with posts and caps. Oil used is of a fair quality, and all other supplies, as required by law, on hands.

D. M. WOODY, Supt.

J. B. LACY, Mine Foreman.

J. B. B. COLLIERIES COMPANY.

Series No. 1125. *J. B. B. No. 2 Mine*.—The ventilation in this mine is produced by an eight ft. fan. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stop-

pings are built of masonry. Break-throughs are driven the required distance. Drainage generally good throughout the mines. Refuge holes where men travel are in fair condition. Powder is carried into this mine in 5 lb. metallic canisters. Coal dust is properly watered down. Miners are well supplied with posts and caps. The second opening meets the requirements of the law. Electricity is used for hauling with 500 volts, which is very dangerous where men travel. Compressed air is used for cutting coal. This office is furnished with maps up to date. Mine foreman's record is properly kept. Stretchers, blankets and safety lamps are on hands.

D. M. WOODY, Supt.

M. J. BROGAN, Mine Foreman.

SUPERIOR-POCAHONTAS COAL COMPANY.

Series No. 1129. *Superior No. 2 Mine.*—This mine is located on Big Davy Run on short branch of the N. & W. Railway. Ventilation is produced by a fan and furnace. Drainage in this mine only fair. Doors and brattice were built of very poor material, allowing one-half of the air to leak and be wasted. Electric wires were in a very poor condition, and very low on side using 500 volts, which makes it exceedingly dangerous where men travel. Miners were well supplied with posts and caps. Stretchers, blankets and safety lamps were on hands as the law requires. Mine foreman's records were properly filled out.

M. J. RILEY, Mine Supt.

JOHN MATNEY, Mine Foreman.

Series No. 1130-1131. *Helena Mine.*—This is a drift opening. Ventilation is produced by a 6 ft. fan and the ventilation in the working faces are very poor. Stoppings, doors and brattice are very poor. Drainage good. Break-throughs were driven at the required distance. All loose rock taken down where men travel. Powder is carried into the mines in 5 lb. metallic canisters. The second opening meets the requirements of the law. All other necessary supplies as required by law on hands.

M. J. RILEY, Mine Supt.

JOHN BERKELEY, Mine Foreman.

Series Nos. 1132-1133. *Blackstone Nos 1 & 2 Mine.*—Ventilation in these mines is produced by a fan and is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete and rock. The air current is split as required by law. All break-throughs are driven at the required distance. Drainage good throughout the mines. Refuge holes where men travel are at the proper distance and are kept whitewashed. Powder is carried into these mines in 5 lb. metallic canisters. Oil used for illuminating purposes is fairly good. No coal dust was observed in these mines. Second opening meets the requirements of the law. All other necessary supplies, as required by law are on hands. Mine foreman's record properly filled out.

M. J. RILEY, Supt.

PETER DRIMER, Mine Foreman.

Series No. 1134. *Davy Crockett Mine.*—This mine is located on the main line of the N. & W. Railway, at Davy. It is a drift opening, and has nat-

ural ventilation which is sufficient for the men employed. This mine is on the retreat, and will only last a few months.

M. J. RILEY, Mine Supt.

JOHN MATNEY, Mine Foreman.

PANDO COAL COMPANY.

Series Nos. 1135-1136. *Pando Nos. 1 & 2 Mines.*—These mines are located on the main line of the N. & W. Railway seven miles west of Welch, working coal known as the No. 6 and 7 Pocahontas seam. No. 2 mine is ventilated by a fan, which is giving very good results. Break-throughs are driven at the required distance. All stoppings, brattice and doors were very poor. While making inspection of mine No. 1, I found that the fan had not been running for several weeks, and there was no air in circulation in this mine. I was compelled to have all the men withdraw at once until the fan was put into operation. This fan is some distance in the mine, and is installed in a very wet place. Mine officials claim they could not keep the belt on so as to keep the fan in operation, so I had them remove the fan to the outside, which, at present, is giving very good results. The miners were well supplied with posts and all other necessary supplies, as required by law, are on hands.

F. M. COOK, Supt.

U. S. YOST, Mine Foreman.

ATLAS-POCAHONTAS COAL COMPANY.

Series Nos. 1137-1138. *Antler Nos. 3 & 4 Mines.*—These mines are located on the main line of the N. & W. Railway seven miles west of Welch. Ventilation is produced by an 8 ft. fan, and the air is well distributed to the working faces. All break-throughs were driven at the proper distance. Drainage generally good. Doors, brattice and stoppings were of a fair quality. All loose rock was taken down where men travel. Second opening meets the requirements of the law. Oil used for illuminating purposes, was of a fair quality. All other necessary supplies as required by law on hands. Mine Foreman's Record properly filled out.

JAMES HENCHEY, Supt.

HOY SHEPPARD, Mine Foreman.

OREGON COAL COMPANY.

Series No. 1139. *Imo No. 1 Mine.*—This mine is located on a branch line of the N. & W. Railway one mile from Welch, working coal known as the Welch seam. Ventilation is produced by a fan 15 ft. in diameter, which is giving very good results. Drainage in this mine is only fair. Considerable loose slate is hanging where men travel. Break-throughs are driven as required by law. Powder is carried into this mine in 5 lb. metallic cans. The second opening meets the requirements of the law. All other necessary supplies as required by law on hands. Mine foreman's records were properly filled out.

C. W. PETERS, Supt.

J. G. KIRBY, Mine Foreman.

Series Nos. 1139a. *Imo No. 3 Mine.*—This is a new mine located one

mile west of Welch and is working the Welch seam. The thickness of this coal is 4 to 4 1-2 ft. Roof is very good. This mine is developed on the double entry system. The coal is cut by machines. Ventilation is produced by a 12 ft. fan, and is very well distributed to the working faces. All break-throughs are driven at the required distance. Drainage generally good throughout this mine. Brattice and doors fair. All powder is carried into this mine in 5 lb. metallic canisters. At the time of this inspection, the mine was very moist and no dust was observed. Miners were well supplied with posts and caps. The second opening meets the requirements of the law. Oil used is of a fair quality. Stretchers, blankets and all other necessary supplies, as required by law are kept on hands. Mine foreman's records properly filled out.

C. W. PETERS, Supt.

J. D. KIRBY, Mine Foreman.

Series Nos. 1140. *McClaren No. 2 Mine*.—This mine is located on the main line of the N. & W. Railway one mile west of Welch. Ventilation is produced by a 12 ft. fan, which gives ample air, and properly distributed. Drainage is not very good. Break-throughs were driven at the required distance. Stoppings very poor. Considerable loose slate was observed in entries where men travel. Powder was carried into this mine in 5 lb. metallic canisters. Miners were well supplied with posts. The second opening meets the requirements of the law. Oil used is of a fair quality. All other necessary supplies, as required by law, are kept on hand.

C. W. PETERS, Supt.

J. D. KIRBY, Mine Foreman.

SLICK ROCK COAL COMPANY.

Series No. 1141. *Slick Rock Mine*.—This mine is located on the main line of the N. & W. Railway, one-half mile west of Welch. Ventilation in this mine is produced by furnace which is very insufficient, as in several places in this mine it is impossible to get any air measurements. The inspector requested the Company to install a fan at once, which was promptly done. Drainage is generally good. Break-throughs are driven at the required distance. Stoppings at the main entry are built of wood. Powder is carried into the mine in 5 lb. metallic canisters. No dust was observed in this mine, as it was in a very moist condition. All oil used was of a fair quality. Mine foreman's records were properly filled out. All other necessary supplies as required by law on hands.

J. E. JONES, Supt.

J. E. JONES, Mine Foreman.

JED COAL AND COKE COMPANY.

Series No. 1142. *Jed Mine*.—This is a shaft mine, and is located on a branch line of the Norfolk & Western Railway, two miles from Welch. Ventilation is produced by an 8 ft. Giaball fan. The air is well distributed to the working faces. Brattice cloth is used to ventilate the rooms and entries beyond the last cross cut. This mine is very wet, also generates considerable gas in dangerous quantities. All break-throughs are

driven at the required distance. The roof in this mine is very bad, but is well taken care of by the mine officials. Part of the coal in this mine is cut by machines. Safety powder is used all through the mines for blasting purposes. No dust was observed in this mine. The miners are well supplied with timbers, posts and caps. The second opening meets the requirements of the law. Kerosene oil was used in general. Notices were posted on the outside. All miners who are given employment are handed a copy of the Mining Laws. All other supplies as required by law on hands. Mine foreman and fire boss records are properly kept.

WILLIAM LECKIE, Supt.

D. R. DAVIS, Mine Foreman.

WM. STOCKDALE, Fire Boss.

UNITED STATES COAL & COKE COMPANY.

Series No. 1143. *Grapewine No. 1 Mine*.—This is a shaft mine, located 5 miles from Welch on a branch line of the N. & W. Railway, and operates the No. 3 Pocahontas seam, also the No. 4 seam, is open but not in operation. Ventilation is produced by a 20 ft. fan, which is capable of giving 350,000 cubic feet of air per minute. This mine is developed in the four entry system. Two intakes and two returns. Drainage is generally good throughout the mines. Considerable gas generates in this mine but is well taken care of. All coal in this mine is undercut by machines (electric) and hauled by electric motors. All entries have a two ft. clearance on each side of the cars. No timber is allowed to be set in main entries, and any slate that is loose or dangerous they are compelled to take down and remove to the outside or store same in the mines. The refuge holes where men travel in the main hallway are at the proper distance required by law, and are kept clear of any refuse also whitewashed. All coal in this mine is shot with the permissible explosives known as masurite. All coal dust is kept properly watered down. As to dangerous practices, none observed. Miners are well supplied with timbers, posts and caps. This second opening meets the requirements of the law. The oil used is of a fair quality. All other supplies as required by law on hands. Mine foreman and fire boss records properly filled out.

FRANK KING, Supt.

JOHN LANGTON, Mine Foreman.

LAWRENCE WILEY, Fire Boss.

WILL ABBOTT, Fire Boss.

Series No. 1144. *Mine No. 2*.—This mine is located on a branch line of the N. & W. Railway, sixteen miles from Welch. It is a slope opening operating the No. 4 seam. Ventilation is produced by a 20 ft. Capell fan which is able to give 350,000 cubic ft. of air per minute. Drainage in this mine is generally good throughout. This mine is developed in the four entry system with two intakes and two returns, and both are kept absolutely clear of all refuse that might accumulate. The ventilation of this mine is well distributed to the working faces. Check doors being used in every four rooms so as to ventilate the rooms properly. Concrete overcasts are used in general all through this mine to make the proper splits in the air current as required by law. All break-throughs are properly

driven at the required distances. Refuge holes in the main entries are at the proper distance and kept clear of all obstruction and whitewashed. No timber is allowed to be set in the main entries, and any slate that is considered dangerous, is taken down and removed to the outside, or stored in the mines. Shot inspectors are employed in this mine so as to see that the holes are properly drilled and the correct amount of powder placed in the holes. Clay is furnished at a convenient place to use for tamping. All coal dust is properly watered down. Miners are well supplied with timber, posts and caps. The second opening meets the requirements of the law. Some kerosene was used in this mine for illuminating purposes. Stretchers, blankets and safety lamps, and all other supplies as required by law are on hands. Mine foreman and fire boss records are properly filled out.

EDWARD ESSER, Supt.

M. C. CONLEY, Mine Foreman.
GEORGE CASTLE, Mine Foreman.
W. SHORT, Fire Boss.
J. E. RILEY, Fire Boss.

Series No. 1145. *No. 3 Mine*.—This mine is located at Gary on a branch line of the N. & W. Railway seven miles from Welch, and is a drift opening, operating the No. 4 seam. Ventilation is produced by a 20 ft. fan, and the air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entries and stoppings are all built of concrete. Overcasts are used to make the proper splits in the air currents as required by law. All break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and whitewashed. In several places electric lights are hung. In some parts of this mine it is very dry and slightly dusty. The second opening meets the requirements of the law. Only part of this mine was working at the time of the inspection. This office has been furnished with maps of the mine up to date. Miners were well supplied with timber and posts. Some mixed oil was used in this mine. All other necessary supplies, as required by the law, are on hand. Mine foreman and fire boss records properly filled out.

W. A. WILSON, Supt.

M. P. BRADY, Mine Foreman.
JAMES KNOT, Fire Boss.

Series No. 1146. *No. 4 Mine*.—This mine is located at Jared on a branch line of the N. & W. Railway ten miles from Welch. This is a drift opening and is ventilated by an 18 ft. fan, which gives ample ventilation for this mine. Drainage is generally good throughout this mine. All break-throughs are driven at the required distance. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper split in the air current as required by law. This mine is developed on the four entry system with two intakes and two returns. Refuge holes where men travel are at the proper distance, and are kept clear of all obstruction also whitewashed. No timber is allowed to be

set on the main entries, and any slate that is in a dangerous condition will be taken down, and it is removed to the outside or stored in the mines. Powder is carried into the mines in 5 lb. metallic canisters. All coal dust is properly watered down. Miners are well supplied with timber, posts and caps. The second opening meet with the requirements of the law. Oil used is of a good quality. Blankets, stretchers and safety lamps and all other supplies as required by law are on hands. Mine foreman and fire boss records are properly filled out.

W. T. PEACOCK, Supt.

LEE SEXTON, Mine Foreman.

F. A. MORRIS, Fire Boss.

FRANK SEXTON, Fire Boss.

Series No. 1147. *No. 5 Mine.*—This mine is located eleven miles from Welch. It is a drift opening, working what is known as the No. 3 Pocahontas seam. Ventilation is produced by a 16 ft. Capell fan, and the air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law. All break-throughs are driven at the required distance. Doors and brattice are built of a good quality. Some kerosene is used in this mine for illuminating purposes. All refuge holes where men travel are kept clear of all obstructions, and are at the proper distance as required by law, and are whitewashed. Powder is carried into this mine in 5 lb. metallic canisters. At the time of inspection this mine was very moist all through. Miners were well supplied with timber, posts and caps. Second opening meets the requirements of the law. Stretchers, blankets and safety lamps are on hands, and all other necessary supplies as required by law.

W. T. PEACOCK, Supt.

L. WILEY, Mine Foreman.

MIKE KOVISH, Fire Boss.

Series No. 1148. *No. 6 Mine.*—This is a drift opening operating the No. 4 Pocahontas seam, and is ventilated by a 20 ft. fan (Capell), and produces 250,000 cubic ft. of air per minute. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law. This mine is developed in the four entry system, using two entries for the intake, and two entries for the return. All break-throughs are driven the required distance. Drainage generally good all through the mines. All dust is properly watered down. Refuge holes where men travel are at the proper distance, and are kept clear of obstruction also whitewashed. In all entries in this mine there is a 2 ft. clearance on each side of the mine cars. Sixty pound rails are used on the main entries, and forty pound rails on the cross entries. Miners are well supplied with timber, posts and caps. Second opening meets with the requirements of the law. With the present equipment, and a full force of men, this mine is able to produce 2000 tons per day. Notices are posted. Stretchers, blankets and safety lamps, and all other supplies as required by law are on hands.

JOHN KERNS, Supt.

JOHN MAURICE, Mine Foreman.

JOHN TOKASH, Fire Boss.

Series No. 1149. *No. 7 Mine.*—This mine is located two miles from Gary on a branch line of the N. & W. Railway, and is ventilated by a fan, and the air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used in general throughout the mines, to make the proper split in the air current as required by law. All break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and whitewashed. Powder is carried into this mine in 5 pound metallic canisters. Miners were well supplied with posts, caps and timbers. Second opening meets the requirements of the law. Oil used of a good quality. Stretchers, blankets and safety lamps on hands and all other supplies as required by law. Mine foreman and fire boss records were properly filled out.

FRANK KERNS, Supt.

A. G. HAHN, Mine Foreman.

H. RACON, Fire Boss.

Series No. 1150. *No. 8 Mine.*—This mine is located on a branch line of the N. & W. Railway, four miles from Gary, working what is known as the No. 4 Pocahontas seam. The A drift is in operation, but the C drift has been closed down for some time. Ventilation is produced by a 12 ft. fan, which is giving very good results. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used all through the mines to make the proper split in the air current as required by law. All break-throughs are properly driven at the required distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and whitewashed. All powder is carried into this mine in 5 pound metallic canisters. Coal dust is properly watered down. Miners were well supplied with timber, posts and caps. Second opening meets the requirements of the law. The oil used is of a fair quality. Stretchers, blankets and safety lamps are kept on hand, and all other necessary supplies as required by the law.

H. N. HARRIS, Supt.

CHARLES GATES, Mine Foreman.

WILLIAM GATES, Fire Boss.

Series No. 1151. *No. 9 Mine.—East and West.*—These mines are ventilated by a 14 ft. fan, and the air is well distributed to the working faces, in both of the mines. Check doors are used in general throughout the mines to ventilate the rooms. Main entry stoppings are built of concrete. Two overcasts were under construction so as to make the proper splits in the air current as required by law. All break-throughs were driven the required distance. Drainage generally good. The roof in the east side mine is very bad in places, but great care is being taken by the foreman in charge as to the general safety of the men. Abundance of timber, posts and caps are on hand. The second opening meets the requirements of the law, in both mines. All coal is produced in the west mine with picks with the exception of one entry where there is one machine at work,

which both cuts and loads the coal and produced 40 tons an hour. The oil used is of a fair quality. Stretchers, blankets and safety lamps are kept on hands, and all other supplies, as required by law.

S. H. GRAHAM, Supt.

M. McFARLAND, Mine Foreman.

GRIT STEWART, Mine Boss.

Series No. 1152. *No. 10 Mine.*—This mine is located at Gary seven miles from Welch on a branch line of the N. & W. Railway. It is a drift opening operating the No. 3 Pocahontas seam. Ventilation is produced by a fan, and the air is well distributed to the working faces. Check doors being used in general all through the mines. Main entry stoppings are built of concrete. Overcasts are used in making the proper splits in the air current as required by law. Drainage is generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and properly whitewashed. All loose rock in the main entries is taken down as soon as observed. In some parts of this mine the dust needs to be watered down, especially in the first left. Miners were well supplied with timber, posts and caps. Oil used for illuminating purposes is generally good. All coal is cut by electric machines in this mine, and hauled by motors. Trolley wires were in good condition. Machine wires only fair. Stretchers, blankets and safety lamps were on hand, and all other supplies, as required by law.

R. M. MERCER, Supt.

D. W. DARBY, Mine Foreman.

THOMAS SCOTT, Fire Boss.

Series No. 1153. *No. 11 Mine.*—This mine operates the Nos. 3 & 4 seam, and is located three miles from Gary. It is ventilated by a fan which ventilates both mines, and produces very good results. Drainage and roof are good, and oil used is of a fair quality. The coal is undercut by electric machines. All break-throughs are driven at the proper distance required. Stoppings in the main entry are built of concrete. Overcasts are used in general to make the proper splits in the air current as required by the law. Powder is carried into this mine in 5 pound metallic canisters. Miners were well supplied with timber, posts and caps. The second opening meets the requirements of the law. Stretchers, blankets and safety lamps are on hand, and all other supplies as required by law. Mine foreman and fire boss records are properly filled out.

J. H. DUNN, Supt.

GEORGE HAWTHORNE, Mine Foreman.

J. L. MULLINS, Mine Foreman.

FRANK WHITE, Fire Boss.

Series No. 1154. *No. 12 Mine.*—This mine is located six miles from Gary on a branch line of the Norfolk & Western Railway, and is working coal known as the Pocahontas No. 3 seam. This is a drift opening, and ventilation is produced by a 16 ft. fan (Clifford), and the air is well distributed to the working faces. Check doors are used in general all through the mines. Overcasts are under construction to make the proper splits in the air current as required by law. Stoppings in the main entry

are built of concrete. Break-throughs are driven at the required distance. Drainage generally good throughout the mines. Powder is carried into the mines in 5 pound metallic canisters. Some dust was observed in this mine. Second opening meets the requirements of the law. The oil used is of a fair quality. Notices were posted at this mine. Stretchers, blankets, safety lamps and all other supplies as required by the law were on hand. Mine foreman records were properly filled out.

J. M. BRYAN, Mine Foreman.

JOE REEDER, Fire Boss.

BLACK WOLF COAL & COKE COMPANY.

Series Nos. 1155-1156. *Nos 1 & 2 Mines.*—These mines are located on a branch line of the N. & W. Railway, and working the Pocahontas No. 3 seam. Ventilation only fair, and fairly distributed. Break-throughs were at the required distance. Roof very bad throughout the mines. Rooms not properly timbered. Considerable loose slate was found in the entries where men travel. Drainage fairly good. Supply of timbers in rooms very poor. Stretchers, blankets and safety lamps on hands, as required by law. The oil is of a fair quality.

E. C. BERKELEY, Supt.

ARTHUR STURM, Mine Foreman.

PAGE COAL AND COKE COMPANY.

Series No. 1157. *No. 1 Mine.*—This mine is located on the Branch Line of the N. & W. Railway, and is working the No. 3 Pocahontas Seam. One tippie being used for 1, 2 and 3 Mines. Ventilation is produced by an 18 ft. fan, and the air is very well distributed to the working faces. Check doors being used to ventilate rooms. Roof fairly good. Drainage good. No bad practices observed. Coal was cut by compressed air machines, while haulage was done by electricity. Maps were furnished this office up to date as required by law. Stretchers, safety lamps and blankets were on hand, and all other necessary supplies, as required by law.

J. R. BAILEY, Supt.

J. A. GALLIMORE, Mine Foreman.

Series No. 1158. *No. 2 Mine.*—This mine is located on the Branch Line the N. & W. Railway, and working the No. 3 Pocahontas seam. Ventilation very good throughout the mines. Drainage fair. Roof very bad in places, but well looked after. Miners were well supplied with posts. 500 volts were used in this mine, which is extremely dangerous where men travel. Oil used of a fair quality. All supplies as required by law on hand. Mine foreman records were properly filled out.

J. R. BAILEY, Supt.

THEODORE HANNA, Mine Foreman.

Series No. 1159. *No. 3 Mine.*—This mine is located on the Branch Line of the N. & W. Railway, and working the No. 3 Pocahontas seam. Ventilation is produced by a 6 ft. exhaust fan, and is giving good results, the air being well distributed to the working faces. The roof very bad in places, and miners well supplied with timbers. In some cases holes

were found bored beyond the undercut. Clay was put at suitable places for miners to use for tamping their holes before blasting. Break-throughs were driven at the required distance. Powder was carried into the mines in 5 lb. metallic canisters. All supplies pertaining to law on hand, and mine foreman's records properly filled out.

J. R. BAILEY, Supt.

J. A. GALLIMORE, Mine Foreman.

WELCH COAL AND COKE COMPANY.

Series No. 1160. *Welch No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway one-half mile west of Welch, and is a drift opening. Ventilation is produced by a 12 ft. fan which is giving ample air but not conducted to the working faces. Drainage in this mine is only fair. The second opening meets with the requirements of the law. Break-throughs are driven at the required distance. All loose rock is properly taken down where men travel. Powder is carried into this mine in 5 lb. metallic cans. No dust was observed. All miners were well supplied with posts and caps. The oil used is of a fair quality. All other necessary supplies as required by the law are kept on hand.

F. J. BAXTER, Supt.

JAMES McBRYER, Mine Foreman.

HEMPHILL COLLIERY COMPANY.

Series No. 1161. *Hemphill No. 2 Mine*.—This mine is located on the main line of the N. & W. Railway, one-half mile from Welch. Ventilation is produced by a 14 ft. fan, which gives ample air for this mine, and it is very well conducted to the working faces. Doors, brattice and stoppings are of a very poor quality. Break-throughs are driven at the required distance. Drainage very poor. In some parts of this mine the coal is cut by machines. The second opening meets with the requirements of the law. Powder is carried into this mine in 5 lb. metallic canisters, except in one case where I found that one keg of powder had been taken in the traveling way of the mine. The oil used is of a fair quality. All other necessary supplies as required by law on hand. Mine foreman's records properly filled out.

F. J. BAXTER, Supt.

J. H. WILLIAMS, Mine Foreman.

MIDDLE STATES COAL AND COKE COMPANY.

Series No. 1162. *No. 11 Mine*.—This is a shaft mine located on the main line of the N. & W. Railway, two miles east of Welch. The depth of this shaft is 182 ft. Ventilation is produced by an 18 ft. Capell fan. Considerable gas was generated in this mine, and brattice cloth is fairly well looked after so as to clean out the gas that may accumulate in the working faces. Part of the stoppings in the main entry are built of concrete while part are built with refuse such as bone coal, which is not substantial enough for this mine. All coal is cut by electric machines and hauled by motors, using no mules in the mines. Electric wires are very low in places and not protected, at cross overs where men travel. Very

little timber is used in this mine, owing to the hard sand stone roof. Drainage is generally good throughout the mines. All break-throughs are driven at the required distance. Both black powder and safety powder are used for blasting purposes. Kerosene oil is used in general. Stretchers, safety lamps and blankets as required by law are all on hand. Mine foreman and fire boss records are properly filled out.

HARRY OLMSTED, Supt.

DAVID EVANS, Mine Foreman.

JOHN H. WILLIAMS, Fire Boss.

DIXON-POCAHONTAS FUEL COMPANY.

Series No. 1163. *Northside No. 1 Mine.*—This mine is located on the main line of the N. & W. Railway three miles east of Welch. This is a shaft opening, operating coal known as the No. 4 Pocahontas seam. Ventilation, is produced by a 15 ft. fan, which was giving ample air at the time of this inspection, but not properly distributed to the working faces, in some parts of this mine. This mine is generating considerable explosive gas. Break-throughs are driven at the required distance. Stoppings are of a fair quality. Check doors were somewhat neglected. The coal is undercut by electric machines. Second opening meets the requirements of the law. Drainage is generally good throughout the mines. More care should be taken by the foreman in charge of this mine to see that the brattice cloth is kept within a reasonable distance from the working faces. This mine is using the permissible explosive, and as to a dangerous practice, the miners are using short fuse, for blasting coal. Clay is put at suitable places for miners to use for tamping the holes. Rules are posted. Oil used is of a fair quality. Stretchers, blankets and safety lamps are kept on hand, and all other necessary supplies as required by the law.

CAREL ROBINSON, Supt.

F. DEVENNY, Mine Foreman.

DAN PARKER, Fire Boss.

Series No. 1164. *Southside No. 2 Mine.*—This is a shaft opening located on the main line of the N. & W. Railway, three miles east of Welch. This is practically a new mine. Ventilation is produced by a temporary fan at the foot of the shaft which is giving very good results at the present. The coal is cut by machines. All dust is properly watered down. Drainage and roof are generally good. All break-throughs are driven at the required distance. The electric wires are properly constructed. Doors are of a fair quality. Sanitary condition of this mine, I consider good. Miners are well supplied with posts and caps. Stretchers, blankets, and safety lamps on hand, and all other necessary supplies as required by law.

CAREL ROBINSON, Supt.

M. N. LIHY, Mine Foreman.

JOHN VICKERS, Fire Boss.

CIRRUS COAL AND COKE COMPANY.

Series No. 1165. *Cirrus Mine.*—This mine is located on the main line

of the N. & W. Railway, five miles east of Welch. This is a slope opening and is operating the No. 3 Pocahontas seam. Ventilation is produced by two fans which were only giving fair results. This mine is liberating off some explosive gases. Brattice and stoppings are of a very poor quality. Considerable dust is observed in the first right entry. The miners were well supplied with posts. The oil used is of a fair quality.

NOTE:—The above company has nearly completed a new slope which will be called Cirrus No. 2 mine. They have opened Nos. 3 & 4 seams and expect to ship coal within the next thirty days.

THOMAS A. SHEWEY, Supt.

EDWARD FLANAGAN, Mine Foreman.

JOHN MORAN, Fire Boss.

VIRGINIA FUEL COMPANY.

Series No. 1166. *Virginia Mine*.—This mine is a slope opening located on the main line of the N. & W. Railway at Big Four. Ventilated by a fan, the air is being well distributed to the working faces. Doors and brattices are of a fair quality. All break-throughs are driven at the required distance. Drainage is good throughout the mine. Permissible explosives are used in this mine for all blasting purposes. Miners are well supplied with timber. The oil used is of a fair quality and all other necessary supplies required by law are on hand.

J. A. STATON, Supt.

L. A. DUFFIELD, Mine Foreman.

KING COAL COMPANY.

Series No. 1167. *King Mine*.—Located on the main line of the N. & W. Railway, seven miles from Welch, and is working the Pocahontas No. 3 seam. Ventilation is produced by a 16 ft. fan which is producing 180,000 cubic ft. of air per minute. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Brattice cloth is kept near the face of all entries where gas is liberated. All stoppings in the main entries are built of concrete. Overcasts are used in general to make the proper splits in the air current as required by law. All break-throughs are driven at the required distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction, and whitewashed. Safety lamps are used in this mine for illuminating purposes. All shooting is done by regular shot-firers, who are employed by the company. Permissible explosives are used. All tamping is done with clay. Miners are well supplied with timbers, posts and caps. The second opening meets with the requirements of the law. Stretchers, blankets and all other necessary supplies as required by law are on hand.

W. C. EASLEY, Gen'l Supt.

S. P. CAMPBELL, Gen. Mine Foreman.

EDW. NICHOLSON, Mine Foreman.

L. T. STERN, Fire Boss.

HARRY HULME, Fire Boss.

TIDEWATER COAL AND COKE COMPANY.

Series No. 1168. *Tidewater Mine*.—This mine is located on the main line of the N. & W. Railway, and is a drift opening. Ventilation is produced by a 16 ft. fan and a 10 ft. fan. Since the inspection of this mine they have installed a 10 ft. Jeffrey fan, which gives excellent results. The air is well distributed at the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by the law. All break-throughs are driven the proper distance required. Drainage generally good all through the mines. Some gas is liberated in this mine, but is very well taken care of. A large force of men are at work cleaning out the refuse in the airways. All slate and timber that had accumulated in this mine has been removed to the outside. Refuge holes are at the proper distance, and are clear of all obstruction and whitewashed. Roof in this mine is very bad in places, but is well taken care of. The permissible explosives are used in the pillar work. Clay is used for tamping the holes throughout the mines. Miners were well supplied with timbers. The second opening meets the requirements of the law. Oil used is of a good quality. Stretchers, blankets and safety lamps are kept on hands, and all other necessary supplies, as required by law.

W. C. EASLEY, Gen'l Supt.

S. P. CAMPBELL, Gen. Mine Foreman.

OTT SMITH, Mine Foreman.

T. L. BOOTH, Fire Boss.

BOTTOM CREEK COAL AND COKE COMPANY.

Series No. 1169. *Bottom Creek Mine*.—This is a drift mine, located at Vivian on the main line of the N. & W. Railway. Ventilation is produced by a 16 ft. fan, and the air is fairly well distributed to the working faces. In places where gas is liberated, brattice cloth is set in a reasonable distance from the working faces so as to clean out all gas that may accumulate. Roof in this mine is very bad, but is well looked after. Three overcasts are under construction at this writing so as to make the proper splits in the air current, as required by the law. Miners are well supplied with timbers. Drainage is generally good throughout the mines. Break-throughs are only fair. Refuge holes where men travel are obstructed with some posts and rock. Recommendations were made to have all refuge holes put in a better condition, and same whitewashed. Second opening meets with the requirements of the law. All oil used is of a fair quality. Stretchers, blankets and safety lamps are on hand, and all other supplies as required by law.

G. S. PATTERSON, Gen'l Supt.

JOHN BELL, Mine Foreman.

WM. STOCKDALE, Fire Boss.

PEERLESS COAL AND COKE COMPANY.

Series No. 1170. *Peerless Mine*.—This mine is located on the main line of the N. & W. Railway at Vivian, and is operating what is known as the

No. 3 Pocahontas seam. This is a drift opening, and is ventilated by a 12 ft. fan. The ventilation at the working faces in this mine was very insufficient. All coal is produced by pick, and is properly undercut. In some cases I found that the miners were putting their holes beyond the undercut, but this was only found in a few places. Clay was used for tamping the holes. Drainage generally good all through the mines. Coal dust is kept well watered down. The roof in this mine is very bad, but is well taken care of. Locomotives are used for hauling coal, but I have the pleasure to say that locomotives in this mine will be abandoned within the next ten days. Electric plant is complete, and the electric wires are hung ready to install electric haulage motor. One drawback in the ventilation of this mine, is the narrow entry in which hauling is done. This has been improved by slabbing the entry to the first side track, giving an area of 120 ft. Excavating is being done to install a new fan, which also expects to be in operation within the next sixty days.

R. Y. LUTHER, Supt.

THOMAS WELDON, Mine Foreman.

W. A. WHITE, Fire Boss.

EMPIRE COAL AND COKE COMPANY.

Series No. 1171. *Empire Mine*.—This mine is located on the main line of the N. & W. Railway at Landgraf. Ventilation is produced by a 15 ft. fan, and is giving 178,000 cubic ft. of air per minute, and is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used in making the proper splits in the air current as required by law. Break-throughs are driven at the required distance. Gas is liberated in this mine, but is well taken care of. Brattice cloth is kept near the working faces as practical. All coal is undercut with picks. Clay is used for tamping. Drainage generally good throughout the mines. Refuge holes are at proper distance as required by law and are kept clear of all obstructions and whitewashed. The roof in this mine is very bad, but is well looked after. All dust is properly watered down. Miners are well supplied with timber, posts and caps. Second opening meets the requirements of the law. Oil used for illuminating purposes is of a fair quality. Stretchers, blankets and safety lamps on hand. Rules in the different languages are posted. All other necessary supplies as required by law, are on hand.

W. D. ORD, Supt.

T. R. BARRETT, Mine Foreman.

T. S. CAMPBELL, Fire Boss.

SHAWNEE COAL AND COKE COMPANY.

Series No. 1172. *Shawnee Mine*.—This mine is located on the main line of the N. & W. Railway at Eckman. It is a drift, operating the No. 3 Pocahontas seam. Ventilation is produced by a 14 ft. fan, and the air is very well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law.

Drainage generally good throughout the mines. Refuge holes are at the proper distance where men travel but are not whitewashed. The roof in this mine is fairly good, and fairly well looked after. All coal is properly undercut with picks. Clay is put at suitable places in the mines to be used for tamping. Coal dust is properly watered down. Miners are well supplied with posts and caps. Second opening meets the requirements of the law. Rules in the different languages are posted. All men who are employed are given a copy of the Mining Laws. Electricity is used for hauling in this mine. Stretchers, blankets and safety lamps on hand, and all other necessary supplies, as required by law.

MORRIS WATTS, Supt.

M. A. SEXTON, Mine Foreman.

JAMES BROWN, Fire Boss.

EUREKA COAL AND COKE COMPANY.

Series No. 1173. *Eureka Mine*.—This mine is located on the Branch Line of the N. & W. Railway, one mile from Eckman, and is operating No. 3 Pocahontas Seam. This mine is ventilated by a fan, and the air is well distributed to the working faces. Check doors are used in general all through this mine to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law. Doors and brattices were of a fair quality. Slight trace of gas was found in this mine. Break-throughs are driven at the required distance. All coal is properly mined by picks. All clay is put at a suitable place for miners to use for tamping. Locomotives are used for hauling purposes, but at this writing an electric plant is nearly completed. Electric wires are installed all through the mines, and electricity will be used for hauling within the next thirty days. Powder was carried into this mine in 5 lb. metallic cans. Second opening meets the requirements of the law. Miners are well supplied with timber, posts and caps. Rules in the different languages are posted, and all necessary supplies as required by law are on hand.

ED DALTON, Supt.

R. S. WHITEHEAD, Mine Foreman.

M. SINCOT, Fire Boss.

PULASKI IRON COMPANY.

Series No. 1174. *No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway at Eckman, and is working the No. 3 Pocahontas seam. Ventilation is produced by a fan, and the distribution of the air is only fair. Drainage poor. Doors and brattices fair. Roof bad, but well looked after. Miners were given a good supply of posts. Second opening meets the requirements of the law. Oil used is of a fair quality. Rules were posted. Powder was carried into this mine in 5 lb metallic cans. Stretchers, blankets and safety lamps on hand, and all other supplies as required by the law.

P. J. JOHNSON, Supt.

J. M. SHANK, Mine Foreman.

Series No. 1175. *No. 2 Mine*.—This mine is located at Eckman on the

N. & W. Railway, and is a drift opening operating No. 3 seam. Ventilation is produced by a 16 ft. fan, and gives ample air for this mine, and is well distributed to the working faces, except in two cases where the entries were driven beyond the 80 ft. limit. Drainage is generally good throughout the mine. Refuge holes where men travel were at the proper distance, and kept clear of all obstruction and properly whitewashed. All coal dust is properly watered down. The miners were well supplied with timber, posts and caps. This mine is equipped with very good sprinkling devices, which are used on the mine trucks, and are used to keep the mine in a very damp condition. The second opening meets the requirements of the law. Rules were posted and all other necessary supplies as required by law on hand.

P. J. JOHNSON, Supt.

J. M. SHANK, Mine Foreman.

KEYSTONE COAL AND COKE COMPANY.

Series Nos. 1176-1177. *Nos. 1 & 2 Mines.*—These mines are located on the main line of the N. & W. Railway at Keystone, and are ventilated by two fans. One 18 ft. and one 8 ft. Ventilation in No. 1 mine is very good, and very well distributed to the working faces. Stoppings in the main entry are built of concrete. Break-throughs were driven at the required distance. Gas was observed, also an accumulation of dust in the main entry in various places. Refuge holes where men travel were not kept properly cleaned out, and not properly whitewashed. In No. 2 mine the air was very insufficient at the working faces. Break-throughs were only fair. Drainage only fair. Powder was carried into these mines in 5 lb. metallic cans. Miners were well supplied with timber, posts and caps. Second opening meets the requirements of the law. Oil used was of a mixed quality. Mine foreman's records were properly kept, and all other necessary supplies as required by law were on hand.

J. K. F. STEELE, Supt.

G. B. SMITH, Mine Foreman.

JAS. SMITH, Asst. Mine Foreman.

G. W. COOPER, Fire Boss.

LYNCHBURG COAL AND COKE COMPANY.

Series No. 1178. *Lynchburg Mine.*—This mine is located on the main line of the N. & W. Railway at Kyle, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 16 ft. fan and the air is very well distributed to the working faces. Check doors are used to ventilate the rooms but not as many check doors as are needed. Stoppings in the main entry are built of masonry. Overcasts are used in making the proper splits in the air current as required by law. Drainage generally good throughout the mines. Slight trace of gas was found in this mine. Maps are furnished this office up to date. Powder was carried into this mine in 5 lb. metallic cans. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and properly whitewashed. Coal is mined by picks. Clay is put at suitable places in the mines to use for tamping the holes before shooting. Second opening

meets the requirements of the law. All coal dust is properly watered down. Rules in the different languages are posted. Stretchers, blankets and safety lamps on hand, and all other necessary supplies as required by law.

A. J. DALTON, Supt.

THOMAS W. FITZIMMONS, Mine Foreman.

JAMES ARMSTRONG, Fire Boss.

POWHATAN COAL AND COKE COMPANY.

Series No. 1179. *Powhatan Mine*.—This mine is located on the main line of the N. & W. Railway at Powhatan, and is working the No. 3 Pocahontas Seam. Ventilation is produced by a 16 ft. fan, and is giving good results. The air being fairly well distributed to the working faces. Drainage and roof generally good throughout the mines. All stoppings on the main entry are built of substantial material. Overcasts being used to make the proper splits in the air current as required by law. Break-throughs are driven the required distance. All entries are undercut by air machines while the balance of the mine is undercut by picks. Clay is put at suitable places in the mine for the miners to use for tamping their holes before blasting. Refuge holes on the main entry are at the proper distance and are kept clear of obstruction, and properly white-washed. Haulage from the side track at the time of this inspection was done by a locomotive. At this writing electricity has been installed, and electric motors are used for all hauling purposes. Electric lights are constructed at all refuge holes where men travel. Powder is carried into this mine in 5 lb. metallic canisters. Dust is properly watered down. Miners were well supplied with timbers, and second opening meets the requirements of the law. Some mixed oil was used in this mine for illuminating purposes. Maps are furnished this office up to date, and all other supplies as required by law on hand. Mine foreman records properly filled out.

J. A. DALTON, Supt.

JOHN LYNCH, Mine Foreman.

JOHN LYNCH, Jr., Fire Boss.

UPLAND COAL AND COKE COMPANY.

Series No. 1180. *No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway at Elkhorn. It operates the No. 3 Pocahontas seam. This mine is ventilated by a 20 ft. fan using four splits in the air current which is controlled by regulators and overcasts. Ventilation is very good in this mine, but check doors were needed to ventilate the rooms. All stoppings on the main entry were built of substantial material. Doors and brattice of a good quality. All break-throughs were driven the required distance. Clay was put at suitable places to be used for tamping holes before blasting was done. Drainage and roof generally good throughout the mines. In a few places in this mine holes were bored beyond the undercut. Some mixed oil was used. Powder was taken into this mine in 5 lb. metallic canisters. Maps furnished this office up to date. This mine is well equipped with water appliances so as

to keep the dust well watered down, but is somewhat neglected. Slight traces of gas were observed. Recommendations were furnished this company to install fire boss, which was done at once. Refuge holes in the main entry where men travel, were at the proper distance, and kept clear of all obstructions, and whitewashed. Main entry is lighted by electricity. Rules in the different languages were posted and all other necessary supplies as required by law on hand.

J. J. LINCOLN, Supt.

J. A. GRANTAN, Mine Foreman.

ALVIN LUMP, Fire Boss.

HOUSTON COAL AND COKE COMPANY.

Series No. 1181. *No. 1 Mine.*—This mine is located at Elkhorn on the main line of the N. & W. Railway and is working in the No. 3 Pocahontas seam. This mine is ventilated by an 18 ft. Capell fan. Both intakes of the air coming through No. 2 mine, and a very good volume of air is circulating through the mines. Drainage in this mine is generally good throughout. Roof very bad in places. Considerable dust was found, but was fairly well watered down. No check doors were used to ventilate the rooms. Main entry stoppings were built of substantial material. Miners were well supplied with timbers. Powder was carried into this mine in 5 lb. metallic cans. Second opening meets the requirements of the law. The oil used is of good quality, and maps furnished this office up to date. All other supplies on hand as required by law. Mine foreman's records properly filled out.

BENJAMIN LEWIS, Supt.

CHRIS CRENSHAW, Mine Foreman.

Series No. 1182. *No. 2 Mine.*—This mine is located at Elkhorn on the main line of the N. & W. Railway, and is ventilated by No. 1 mine fan, which is giving very good results, but not properly distributed. Check doors not being used to ventilate the rooms. Main entry stoppings are built of masonry. Overcasts are under construction so as to make the proper splits in the air current for Nos. 1 and 2 mines, as required by law. All break-throughs in this mine were at the proper distance. Clay was put at suitable places for miners to use for tamping the holes before blasting was done. Refuge holes in the main entry where men travel are at the proper distance and are kept clear of all obstruction, and whitewashed. Some miners were carrying powder into this mine in excessive quantities. On May 19th, 1909, recommendations were furnished this Company to install a fire boss, as two entries in this mine were generating considerable explosive gases, and they were also instructed to keep a regular fire boss report, and to put a fire boss on duty at once. I also recommended to install a fan at No. 2 mine. Second opening meets the requirements of the law. Rules in the different languages were posted. Oil used of a fair quality. All other necessary supplies as required by law on hand. Mine foreman records were properly filled out.

BENJAMIN LEWIS, Supt.

GEORGE GUY, Mine Foreman.

CROZER COAL AND COKE COMPANY.

Series No. 1183. *Crozer No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway one-half mile east of Elkhorn, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 20 ft. fan, which is fairly distributed throughout the mines. No check doors are used to ventilate the rooms. Stoppings on the main entry were built of substantial material. All doors and brattices properly constructed. Considerable shooting was observed on the solid. Break-throughs were driven at the required distance. Drainage and roof generally good throughout the mines. The oil used is of a fair quality. Powder was carried into the mines in 5 lb. Metallic cans. Miners were well supplied with timbers. Refuge holes where men travel, were at the proper distance and kept clear of all obstruction, and properly whitewashed. Main entries were lighted by electricity. Rules in the different languages were posted. All other necessary supplies as required by law on hand. No fire boss was employed at this mine.

ED EVANS, Supt.

JOE McCROCKETT, Mine Foreman.

Series No. 1184. *No. 2 Mine*.—This mine is a drift opening operating the No. 3 Pocahontas seam, and is ventilated by a 15 ft. fan, which is only giving fair results. Drainage in this mine is very poor. Considerable dust was observed in the rooms. Stoppings on the Main Entries were built of substantial material. The air current was properly split as required by law. Break-throughs were driven at the required distance. Powder was carried into this mine in 5 lb. metallic cans. Miners were well supplied with timbers. Second opening meets the requirements of the law. Oil used for illuminating purposes good. Stretchers, blankets and safety lamps and all other supplies as required by law on hand.

ED EVANS, Supt.

T. M. SCOTT, Mine Foreman.

TURKEY GAP COAL AND COKE COMPANY.

Series No. 1185. *Turkey Gap Mine*.—This mine is located on the main line of the N. & W. Railway at Ennis. It is a drift opening, operating the No. 3 Pocahontas seam. This mine is ventilated by two 18 ft. exhaust fans, which are giving fairly good results under the conditions. Each room neck using brattice cloth, so the air will travel the edge of the falls. Stoppings on the main entry were built of substantial material, but no overcasts were used to make the proper splits in the air current as required by law. Break-throughs were driven at the required distance. Drainage generally good throughout the mine. This mine is on the retreat, and is all pillar work. Two inspections had been made in this mine and no gas was observed. On June 3rd, 1909, considerable space had been made by drawing pillars, which made a big fall, and liberated explosive gas. While the roof was falling explosive gas was forced out on to the men working near with open lights, and ignited which gave a slight compression throughout the mines, and caused the stampede with the men who rushed for the outside. Upon making investigation in this

mine, gas was found at the edge of the falls for a distance of 2,000 feet, and must have extended back to the boundary line which was about 1000 feet. Several days were consumed in getting this gas removed. More effective work could have been done in removing this gas, if the fans had been constructed so the air current could have been reversed.

The methods in which these pillars are drawn is a difficult proposition to ventilate with the present system. Steam locomotives are in the mines, although this present method has been used for years.

In the No. 52 opening, which has been standing for years, preparations have been made by the company to draw these pillars and run the locomotive in this No. 52 opening a distance of probably 2,000 ft. Recommendations were furnished this company in writing, forbidding the use of steam locomotives in this opening which were complied with. Miners were well supplied with timbers. The second opening meets the requirements of the law. Oil used only fair. Two fire bosses are employed. All necessary supplies as required by law on hand, and all records properly filled out.

ED McQUAIL, Supt.

J. P. JOHNSON, Mine Foreman.

JOHN MURRAY, Fire Boss.

JOHN WRIGHT, Fire Boss.

CENTRAL-POCAHONTAS COAL COMPANY.

Series No. 1187. *Anawalt Mine*.—This mine is located on the Branch Line of the N. & W. Railway fifteen miles from Welch, and is working the Pocahontas No. 3 seam. This mine has natural ventilation, and at the time of this inspection, was only working eleven men. All being entry work. Some shooting was done on the solid, while clay was used for tamping. Miners were well supplied with posts. Roof very bad. Drainage good.

G. T. FARROW, Supt.

G. T. FARROW, Mine Foreman.

TWELFTH DISTRICT.

GENERAL SUMMARY OF THE TWELFTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES,								Production of		
			Inside.				Outside.				Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Lincoln	3		20	45	5	14	84	15		15	99	49,954	
Logan	29	11	31	916	178	461	1,586	379		379	1,965	1,909,063	
Mingo	54	10	245	785	273	419	1,722	331		331	2,053	1,617,581	
Wayne	1		41			16	57	4		4	61	34,619	
Totals..	87	21	337	1,746	456	910	3,449	729		729	4,178	3,611,217	

HON. JOHN LAING,

Chief of Dept. of Mines,

Charleston, W. Va.

DEAR SIR:—

In compliance with Section 3 of the Mining Law, I herewith respectfully submit to you my annual report as Inspector of the mines in the Twelfth District for the year ending June 30, 1909.

During the year I made one hundred and forty-seven regular inspections and forty-two special visits to the mines, which were mostly made for the purpose of investigating fatal accidents and to see that some former recommendations were being carried out.

I found fewer persons violating the mine law during the past year than in the previous year. Only three persons being prosecuted by me.

The general condition of the mines in this district has been greatly improved during the year, notwithstanding, the depression in the coal business, which seemed to prevail during the entire year. There are a few mines, however, where such a small amount of work has been done in them during the year, that no improvements can be noticed. Most of the improvements made consisted in installing fans and constructing permanent stoppings.

In my report of last year, I outlined what in my opinion I considered the dangers incident to the indiscriminate use of the black powder in the mines. It is pleasing for me to state that some of the largest operating

companies in my district have placed a strict supervision over the shooting of coal in the mines, so as to do away with some of the dangers attending it.

As it is now generally known that the reckless use of black powder in our mines has had most to do with the disastrous explosions which have happened during the last few years, I consider it the duty of this Department to make such regulations, pending a general act of the Legislature, as will help to do away with the dangerous practice we now have to contend with in the excessive and promiscuous use of black powder.

Regarding such regulations, I wish to say that I consider those drawn up recently by you, and which are to go into effect by the fifteenth of this month are a step in the right direction. If strictly enforced, I believe they will do much in preventing a repetition of those disastrous explosions we have had in the past.

Only eighty-three per cent of the fatal accidents that occurred in this district during the past year have been due to either riding on cars in the mines or on inclines outside of the mine. I have made a special investigation of every one of those accidents and I have found that in nearly every case the party was killed while not attending his own work. In such cases I have cautioned the Superintendent and mine foreman that a more strict discipline should be maintained and have no one but those skilled to perform such work.

In conclusion, I desire to give thanks to the operators and miners of the district who have shown such a ready willingness to assist me in having the mine law complied with.

I also wish to thank you for the able advice and assistance I received, and for the energetic way in which you stood back of me to bring about a more safe condition in our mines.

Respectfully submitted,

P. A. GRADY,

Mine Inspector, Twelfth District.

CONDITION OF THE MINES IN THE TWELFTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 1219 indicates the Twelfth District and number 19 mine.

LINCOLN COUNTY.

BRANCHLAND COAL COMPANY.

Series No. 1201. *Branchland Mine.*—This mine is located on the Guyan Valley Branch of the C. & O. R. R., is a drift opening in the Stockton seam conveying the coal across the river by an aerial tramway. The ventilation produced by a furnace is only fair. Drainage good; roof poor. The mine laws are complied with in all other respects.

J. C. FENIMORE, Supt. and Mine Foreman.

SOUTHERN FUEL COMPANY.

Series No. 1202. *Rochester Mine*.—This mine is located at Branchland on the Guyan River, operating the Stockton seam of coal. The ventilation produced by a furnace was found fairly good on day of last inspection. Roof is fair; drainage good. Very little coal has been shipped from this mine during the past year. At the time of my last inspection of this mine, I found some coal being shot from the solid. Recommendations were made that it either be done with a so-called safety powder or employ shot firers to do it when all other employes are out of the mine. G. W. COYLE, Supt. and Mine Foreman.

BRANCHLAND COAL COMPANY.

Series No. 1203. *Brown City Mine*.—Idle all year. No report. J. C. FENIMORE, Supt.

MITCHELL & BATES.

Series No. 1204. *Eden Park Mine*.—This mine is located on the Guyan Valley Branch of the C. & O. R. R.; opened in the Kanawha seam. Idle the whole year. J. W. MITCHELL, Supt.

LOGAN COUNTY.

PRUDENTIAL COAL MINING COMPANY.

Series No. 1205. *Prudential Mine*.—This mine is located at Big Creek on the Guyan Branch of the C. & O. R. R., operating the Kanawha seam of coal, has been idle all year and no inspection made. S. C. FISHER, Supt.

STONE BRANCH COAL COMPANY.

Series No. 1206. *Stone Branch Mine*.—This mine is located at Stone Branch on the Guyan River, operating the Kanawha seam of coal. The ventilation produced by a fan and furnace is good. Drainage good; roof fairly good. Stoppings and doors in good condition. The mine laws in all other respects complied with. The present management, which took control of this mine during the year, have done much to improve its condition.

J. C. KENT, Supt.

GEO. CASTLE, Mine Foreman.

BIG CREEK COAL COMPANY.

Series No. 1207. *Big Creek Mine*.—This mine is located at Kitchen on Guyan River; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace has always been found fairly good.

A fan was recommended and assurance given that it would be installed. Roof is good. Drainage good. Stoppings and doors in good condition. The mine laws in other respects are complied with.

W. T. OLIVER, Supt

JOHN EARLY, Mine Foreman.

E. R. JOHNSON COAL COMPANY.

Series No. 1208. *Johnson Mine*.—This mine is located near Logan on the Guyan River; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a Stine fan, is good. Roof is good. On account of the undulating pavement, drainage is poor. The mine laws in all other respects are complied with. This mine started to ship coal during the year.

R. O. HEYZER, Supt.

J. A. BROWN, Mine Foreman.

DRAPER COAL & COKE COMPANY.

Series No. 1209. *Draper Mine*.—This mine is located at Logan; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace is not sufficient for the size of the mine. A fan was recommended to be installed and preparations are now being made to install it. Roof is good; drainage good. Permanent stoppings on main entries. In other respects, the mine law is being complied with.

R. O. HEYZER, Supt.

F. R. KITCHEN, Mine Foreman.

H. T. WILSON COAL COMPANY.

Series No. 1210. *Wilson Mine*.—This mine is located at Logan and is operating the Winifrede seam of coal. The ventilation produced by a fan is good. Roof is good; drainage good. Stoppings and doors in good condition. The law, in regard to powder, oil, safety lamps, stretchers and blankets, is complied with.

R. O. HEYZER, Supt.

BEN WILSON, Mine Foreman.

FORT BRANCH COAL COMPANY.

Series No. 1211. *Fort Branch Mine*.—This mine is located about three miles above Logan on Dingess Run. It is a drift mine, operating the Winifrede seam of coal. Ventilation produced by an 8-foot Thayer fan that was installed during the year is good. Roof and drainage are good. Doors and stoppings in good condition. The mine law in other respects is complied with.

C. E. STAFFORD, Supt.

J. E. BOLEN, Mine Foreman.

PRICE COAL COMPANY.

Series No. 1212. *Price Mine*.—This mine is located about four miles above Logan on ingess Run. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by a furnace has always been

found fairly good. They are preparing now to install an 8-foot Stine fan which was recommended. Roof and drainage are good. Doors and stoppings in good condition. The law in other respects complied with.

C. E. PRICE, Supt.

J. R. PRICE, Mine Foreman.

REX COAL & COKE COMPANY.

Series No. 1213. *Rex Mine*.—This mine is located about four miles above Logan on Dingess Run. It is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace has been found good. An 8-foot fan which was recommended is now being installed. Roof and drainage are good. Doors and stoppings in good condition. The law in other respects complied with.

J. P. KINZER, Supt.

G. H. BOLEN, Mine Foreman.

Series No. 1214. *Logan No. 1 Mine*.—This mine is located four miles above Logan on Dingess Run. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by a furnace is fairly good. Excavating is being done to install an 8-foot Stine fan which was recommended. Roof and drainage are good. Doors and stoppings in good condition. The plan of developing this mine was changed during the year from the ordinary main and cross entry system to the panel system which will make a great improvement in developing the mine. The mine laws in other respects are complied with.

J. P. SMALL, Supt.

W. S. MCGINNIS, Mine Foreman.

ETHEL COAL COMPANY.

Series No. 1215. *Ethel Mine*.—This mine is located five miles above Logan on Dingess Run. It is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace is only fair. A fan was recommended and they are now installing a 10-ft. centrifugal fan. Roof and drainage are good. Doors and stoppings in good condition. In other respects, the mine laws are being complied with.

C. A. DEVENY, Supt.

M. HALL, Mine Foreman.

MONITOR COAL & COKE COMPANY.

Series No. 1216. *Monitor Mine*.—This mine is located on Main Island Creek about a mile and one half above Logan. It is a drift opening operating the Winifrede seam of coal on a double entry panel system. The ventilation produced by an 8-ft. Stine fan is very good. A 12-foot fan has been installed close to this one and is held in reserve for the future development of the mine. Roof and drainage are good. Doors and stoppings in excellent condition. Dust and other refuse is kept carefully cleaned from all entries and airways of the mine. A 60 H. P. boiler has been erected near the intake of the mine for the purpose of keeping the mine moist and maintaining a uniform humidity during the whole year. Pipes from this boiler are laid to different parts of the mine. This mine is inclined

to be naturally dry, but, owing to the method adopted for moistening the mine, the relative humidity readings taken by me during the winter months, have never fallen below 90 per cent. The management has, without being requested, endeavored to keep his mine in the safest condition possible.

J. E. BARLOW, Gen. Mgr.

E. M. STEVENS, Mine Foreman.

Series No. 1217. *Beechwood Mine*.—This mine is located on Main Island Creek about one and one-half mile above Logan. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by an 8-ft. Stine fan is very good. Roof is good; drainage good. Doors and stoppings in excellent condition. This mine is kept in the same condition as the Monitor mine.

J. E. BARLOW, Gen. Mgr.

R. B. BARLOW, Mine Foreman.

YUMA COAL & COKE COMPANY.

Series No. 1218. *Yuma Mine*.—This mine is located on Main Island Creek above Logan. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by an 8-foot Stine fan is very good. Roof is good. Drainage good. Doors, stoppings and overcasts in excellent condition. Dust and other refuse carefully cleaned from entries and air ways of the mine. The mine as a whole is in excellent condition.

C. K. ROBERTSON, Supt.

W. L. STEVENS, Mine Foreman.

GAY COAL & COKE COMPANY.

Series No. 1219. *Gay Mine*.—This mine is located on Island Creek above Logan. It is a drift mine operating the Winifrede seam of coal on a modified long wall system. The ventilation produced by a fan is good. Roof is good; drainage good. Doors and stoppings in good condition. The mine law in all other respects complied with.

H. S. GAY, Gen. Mgr.

FRED KELLERMAN, Mine Foreman.

CORA COAL & COKE COMPANY.

Series No. 1220. *Cora Mine*.—This mine is located on Island Creek above Logan. It is a drift mine operating the Winifrede seam of coal on a double entry system. The ventilation produced by an 8-foot Thayer fan is very good. Roof is good; drainage good. Doors and stoppings are in excellent condition. All coal is "snubbed" after being undercut and clay used for tamping shot holes. A careful supervisor is kept over the shooting of the coal. In all other respects, the mine laws are being complied with.

C. W. JONES, Gen. Mgr.

E. B. TRUAX, Mine Foreman.

UNITED STATES COAL & OIL COMPANY.

This company is operating six mines on Island Creek in Logan county. To render their mines as safe as possible they have

adopted a number of safety precautions along with keeping them in the most excellent condition possible. To overcome in their mines the danger there is in the shooting of the coal, they have employed shot bosses to patrol the mines to see that the coal is cut and shot in a proper manner. Clay tamping is used in the shot holes and excessive charges of powder are discouraged so as to reduce the danger there is in shooting and to net them a higher percentage of screened coal. The mine foremen are required to take frequent hygrometris readings to see that the relative humidity of the mine atmosphere is kept up at all times during the year. To maintain this humidity a plentiful supply of water is introduced into the mine during the winter months. For excellent conditions and getting out a large production of coal, I consider their Nos. 1 & 2 mines second to none in the state. A hospital is being erected convenient to the mines, where an ambulance can take those injured in the mines for treatment.

JAMES C. BEEBE, Gen. Mgr.

PAUL HARDY, Gen. Supt.

W. P. LEAR, Supt.

Series No. 1221. *Island Creek No. 3 Mine*.—This mine is located on Island Creek near Holden. It is a drift opening operating the Winifrede seam of coal. The ventilation produced by a 10-foot Stine fan is good. Roof is good. Drainage good. Doors, stoppings and overcasts in excellent condition. The mine laws are complied with in every respect.

HARDEN POIRIER, Mine Foreman.

Series No. 1222. *Island Creek No. 4 Mine*.—This mine is located near Holden; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a 10-foot Stine fan is very good. Roof is good; drainage good. Doors and stoppings in excellent condition. The mine laws in other respects complied with.

HARDEN POIRIER, Mine Foreman.

Series No. 1223. *Island Creek No. 5 Mine*.—This mine is located on Island Creek near Holden; is a drift opening operating the Winifrede seam of coal. The ventilation of this mine, which is produced by the fan at No. 2 mine, is good. Roof is good; drainage good. Doors and stoppings in excellent condition. The mine laws complied with in all other respects.

W. B. SIMMS, Mine Foreman.

Series No. 1224. *Island Creek No. 6 Mine*.—This mine is located on Island Creek near Holden; is a drift mine operating the Winifrede seam of coal.

The ventilation produced by a 10-foot Jeffrey fan, installed during the year, is very good. Drainage is good. Roof good. Doors, stoppings, and overcasts in excellent condition. Like all the other mines of this company, this mine is in excellent condition.

W. B. SIMMS, Mine Foreman.

Series 1225. *Island Creek No. 2 Mine*.—This mine located at Holden, is a drift opening operating the Winifrede seam on the quadruple entry system. Ample ventilation is produced and well distributed throughout the mine by a thirteen and one-half foot fan. Roof is good; drainage good. Rules are posted. Stretchers and safety lamps are kept at the mine. All doors and stoppings in good condition. The mine laws are complied with in all other respects.

G. W. LAX, Mine Foreman.

Series No. 1226. *Island Creek No. 1 Mine*.—This mine, located on Island Creek, at Holden, is a drift opening operating the Winifrede seam of coal on the triple entry system. Ventilation produced by a thirteen and one-half foot Clifford fan is well distributed in the different splits throughout the mine. Roof is good; drainage good. Doors, stoppings, and overcasts in excellent condition. In other respects, the mine law is being complied with.

FRANK SHARP, Mine Foreman.

WAYNE COUNTY.

EAST LYNN COAL COMPANY.

Series No. 1227. *East Lynn No. 1 Mine*.—This mine, located eight miles from Wayne on Twelve Pole Creek, is a drift opening operating the Winifrede seam. The ventilation produced by two furnaces and natural causes has been found fairly good on days of inspection. Roof is good; drainage good. Oil and powder law is observed. Rules are posted and stretchers and safety lamps are kept at the mine. The coal is supposed to be shot with shot firers when all other employes are out of the mine.

A. J. PERRY, Gen. Mgr.

W. S. SELLARDS, Mine Foreman.

MINGO COUNTY.

PEARL COAL MINING COMPANY.

Series No. 1230. *Haggerty Mine*.—This mine, located at Dingess on the N. & W. R. R., is a slope opening, operating the Lower Kittanning seam. The ventilation, which was produced by an eight-foot Thayer fan, was good. Roof is good. Drainage was good. Oil and powder law observed. Rules are posted and stretchers and safety lamps kept at the mine. This mine was abandoned during the year.

J. F. KENT, Supt.

GEO. CASTLE, Mine Foreman.

MINGO BLOCK COAL COMPANY.

Series No. 1231a. *No. 1 Mine*.—This company started to open up mines about two years ago, on Pigeon Creek between Naugatuck and Dingess. No coal has been shipped and no inspections made.

DR. HENRY MACE PAYNE, Supt.

AJAX COAL COMPANY.

Series No. 1232. *Ajax Mine*.—Idle nearly all year. No inspection made.

NAUGATUCK COAL COMPANY.
(Formerly Walnut Hill C. & M. Co.)

Series No. 1233. *Naugatuck Mine*.—This mine, located on Pigeon Creek near Naugatuck, is a drift opening operating the Kittanning seam of coal. Ventilation produced by a furnace is good. Roof is good; drainage good. Doors and stoppings in good condition. Rules are posted and stretchers and safety lamps are kept at the mine. Coal cutting machinery was put in this mine during the year and a new coal tippie erected. The mine laws in other respects are complied with.

S. W. PERRY, Supt.

L. J. BLANKENSHIP, Mine Foreman.

WARFIELD COAL COMPANY.

Series No. 1234. *Warfield Mine*.—This mine, located four miles west of Naugatuck on Tug River, is a shaft opening operating the Alma seam. This mine has been idle all year on account of the coal trade depression.

B. MCORE, Supt.

BIG SPLINT COAL COMPANY.

Series No. 1235. *Nolan Mine*.—Located near Nolan on the N. & W. R. R. It is a drift opening in the Winifrede seam. Idle all year and no inspections made.

No officials.

CULROSS COAL COMPANY.

Series No. 1236. *Jackson Mine*.—This mine, located near Nolan on the N. & W. R. R., is a drift opening in the Winifrede seam. Idle all year and no inspection made.

No officials.

LEMOIN COAL COMPANY.

Series No. 1238. *Hatfield Mine*.—This mine, located near Nolan on the N. & W. R. R., is a drift opening, operating the Winifrede seam of coal. This mine has not shipped any coal for the greater part of the year. The new company, which acquired control, has erected a new tippie and are making other necessary improvements. Was known last year as Hatefield Colliery Company.

J. W. MALSBY, Supt.

CHATTAROY COLLIERY COMPANY.

Series No. 1239. *Chattaroy Mine*.—This mine, located on Buffa'o Creek,

four miles west of Williamson, is a drift opening, operatnig the Winifrede seam of coal. The ventilation produced by furnace was not found satisfactory at the time of my last inspection, and recommendations were made that a fan be installed immediately. This I was assured would be done. Roof is good; drainage good. Doors and stoppings not in good condition. Rules posted and stretchers and safety lamps kept at the mine.

C. E. TABOR, Supt.

A. M. TABOR, Mine Foreman.

BUFFALO COLLIERY COMPANY.

Series No. 1240. *Buffalo Mine*.—This mine, located on Buffalo Creek, four miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation produced by a seven-foot Stine fan is good. Drainage is good. Roof is of a good sandstone. Doors and stoppings in good condition. Rules are posted. Stretchers and safety lamps are kept at the mine. Mine law in other respects is complied with.

S. V. PRESTON, Supt. and Mine Foreman.

LINGOHOCKEN COAL COMPANY.

Series No. 1241. *Lingohocken Mine*.—This mine, located on Buffalo Creek, four and one-half miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation produced by a fan is good. Roof is good; drainage good. Doors and stoppings in good condition. Rules are posted and stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements.

W. B. BUCKWALTER, Supt.

J. H. BAISDEN, Mine Foreman.

HOWARD COLLIERY COMPANY.

Series No. 1242. *Howard Mine*.—This mine, located on Buffalo Creek, four and one-half miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation produced by a fan is very good. Roof is good; drainage good. Doors and stoppings in good condition. Second opening meets lawful requirements. Rules posted, stretchers and safety lamps are kept at the mine. This mine is in first-class condition.

F. L. SCHOEW, Gen. Mgr.

R. G. CLAYTOR, Mine Foreman.

F. L. ESTLER, Supt.

WINIFREDE CONSOLIDATED COAL COMPANY.

Series No. 1243. *Sugar Tree Mine*.—This mine, located on Sugar Tree Creek about two miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation, produced by furnaces, has always been found fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted, stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements.

W. A. LINDSEY, Supt.

J. T. STEVENS, Mine Foreman.

WILLIAMSON COAL & COKE COMPANY.

Series No. 1245. *Williamson No. 1 Mine*.—This mine, located at Williamson, is a drift opening operating the Kittanning seam. Ventilation is produced by a furnace. Only a few men were employed in this mine during the year. No inspections made.

W. T. POOLE, Supt.

Series No. 1246. *Williamson No. 2 Mine*.—This mine, located at Williamson, is a drift opening operating the Kittanning seam. On account of the coal trade depression, it has been idle all year.

L. B. RAMSEY, Supt.

Series No. 1246a. *Williamson No. 3 Mine*.—This mine, located at Williamson, is a drift opening in the Winifrede seam. It commenced shipping coal during the year. Ventilation produced by two furnaces is good. Roof is good. Drainage good. Rules are posted and stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements. In all other respects, I found the law complied with.

L. B. RAMSEY, Supt.

H. H. KELLEY, Mine Foreman.

RAWL COAL AND COKE COMPANY.

Series No. 1247. *Rawl Mine*.—This mine, located four miles east of Williamson, is a drift opening operating the Kittanning seam. Ventilation produced by an 8-foot Thayer fan and furnace is only fair. Roof is good. Drainage good. Doors and steppings in fair condition. Rules are posted. Stretchers and safety lamps are kept at the mine.

R. N. TAYLOR, Supt.

LYS. WEBB, Mine Foreman.

WHITE STAR COAL MINING COMPANY.

Series No. 1249. *Coaling Station Mine*.—This mine, located five miles east of Williamson, is a drift opening operating the Kittanning seam. This mine has been idle all year. It was known last year as the Coaling Station Mine of the Merrimac C. & C. Co.

GEO. WELCH, Supt.

Series No. 1250. *Commercial Mine*.—This mine, located five miles east of Williamson, is a drift opening operating the Kittanning seam. The ventilation is produced by a fan. This mine has been idle nearly the whole year. The present company are now building a new tippie and cleaning the mine up preparatory to resuming operations.

GEO. WELCH, Supt. and Mine Foreman.

BELVEDERE GAS COAL COMPANY.

Series No. 1251. *Aima Mine*.—This mine, located five miles east of Williamson, is a drift opening operating the Lower Kittanning seam. It has been idle all year and no inspection has been made.

MARVIN COAL COMPANY.

Series No. 1252. *Marrin Mine*.—This mine, located at Matewan, is a drift opening operating the Lower Kittanning and Thacker seams. The ventilation produced by a furnace is good. Drainage is good; roof frail. Rules are posted and stretchers and safety lamps are kept at the mine. The law in other respects, I found complied with.

J. A. WILLIAMS, Supt.

W. H. ARTIS, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1253. *Rutherford Mine*.—This mine, located at Mate Creek near Matewan, is a drift opening operating the Thacker seam. The ventilation produced by a Crawford and McCrimmon fan has always been found good and well distributed throughout the mine. Roof is good; drainage good. Oil and powder law is observed. Doors and stoppings in good condition. The shooting of the coal, except on the pillar work, is mostly done at night.

JOHN SLUSS, Gen. Mgr.

J. S. CHILDERS, Mine Foreman.

T. E. BRAZEAL, Supt.

Series No. 1254. *Logan Mine*.—This mine, located on Mate Creek, two miles from Matewan, is a drift opening operating the Thacker seam. The ventilation which is forced through from the Red Jacket mine is ample for the few men employed. Roof is good; drainage good. The work in this mine is done in extracting pillars. The law in other respects is complied with.

T. E. BRAZEAL, Supt.

HUGH BOYD, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1255. *Red Jacket Mine*.—This mine, located on Mate Creek, two miles from Matewan, is a drift opening operating the Thacker seam. The ventilation produced by a Crawford & McCrimmon fan is good. Roof is good; drainage good. Oil and powder law is observed. Rules are posted. Stretchers and safety lamps kept at the mine. There is a noticeable absence of powder smoke in this mine during the day on account of most of the shooting being done by shot firers at night.

JOHN SLUSS, Gen. Mgr.

HUGH BOYD, Mine Foreman.

T. E. BRAZEAL, Supt.

MATE CREEK COAL COMPANY.

Series No. 1256 and 1257. *Nos. 1 and 2 Mines*.—These mines, located at Matewan, are drift openings in the Thacker seam. They have been idle all year on account of the depression in the coal trade.

S. T. LAMBERT, Supt.

THACKER COAL & COKE COMPANY.

Series No. 1258. *Lynn Mine*.—This mine, located on the N. & W. R. R., three miles west of Thacker, is a drift opening in the Thacker seam. Ventilation produced by a furnace and natural causes was found fairly good on days of inspection for the number of men working in the mine. Roof is very good; drainage good. Doors and stoppings in fair condition. Mine laws posted and stretchers and safety lamps kept at the mine. Second opening meets the requirements of the law.

JAMES COLLINS, Gen. Supt.

TONY GARBAC, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1259. *Maritime Mine*.—This mine, located near Thacker on a branch of the N. & W. R. R., is a drift opening in the Thacker seam. This mine has been idle all year and apparently abandoned as the machinery and other equipment has been taken from it. I have been informed that it would be developed through the Rutherford mine on the Mate creek side.

JOHN SLUSS, Gen. Mgr.

THACKER COAL & COKE COMPANY.

Series No. 1260. *Thacker No. 2 Mine*.—This mine, located on the Thacker branch of the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by a fifteen-foot Crawford & McCrimmon fan, is good. Roof is of a frail nature, and requires careful attention. Drainage is good. Doors and stoppings in fair condition. Rules are posted in the different languages. Stretchers and safety lamps are kept at the mine. All coal mined is in extracting the pillars

JAS. COLLINS, Gen. Supt.

CHARLES SIGMUND, Mine Foreman.

Series No. 1261. *Thacker No. 3 Mine*.—This mine, located on the Thacker branch of the N. & W. R. R., is a drift mine operating the Thacker seam. Ventilation produced by a fifteen-foot Capell fan, is good. Roof is not good, requiring careful attention. Drainage is good. Oil and powder law is observed. Rules are posted in the different languages, and stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements. The coal in this mine is all cut by chain machines. To guard against the danger of shooting heavy charges of black powder, the management, during the winter months, had the lower bench of coal shot with a permissible explosive under the supervision of shot firers. After the lower bench was shot, the upper one was shot with a few inches of black powder tamped with clay. This method of shooting the coal was heartily approved by the Inspector.

JAMES COLLINS, Gen. Supt.

PETER KERR, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1262. *Lick Fork Mine*.—This mine, located on the Lick

Fork branch of the N. & W. R. R., consists of a number of drifts opened in the Thacker seam. Ventilation produced by three furnaces is good. Roof is good, drainage good. Doors and stoppings in good condition. Rules are posted in the different languages, and stretchers and safety lamps are kept at the mine. Second openings meet lawful requirements. The coal is shot from the solid by shot firers when all other employes are out of the mine.

JOHN SLUSS, Gen. Mgr.
W. A. WILSON Supt.

BASS PRICE, Mine Foreman.

THACKER COAL & COKE COMPANY.

Series No. 1263. *No. 10 Mine.*—This mine, located on the Lick Fork branch of the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by two furnaces is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted and stretchers and safety lamps are kept on hand. Second openings meet lawful requirements.

JAMES COLLINS, Gen. Supt.

PETER STISSEL, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1264. *Grapevine Mine.*—This mine, located near Thacker on the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by furnaces and natural causes is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted. Stretchers and safety lamps are kept on hand. Second opening meets lawful requirements. The coal in this mine is shot from the solid and where a permissible explosive is not used, the shooting is done by shot firers when all other employes are out of the mine.

JOHN SLUSS, Gen. Mgr.

W. M. MUSSER, Mine Foreman.

W. A. WILSON, Supt.

MAJESTIC COLLIERIES COMPANY.

Series No. 1265. *Cedar Mine.*—This mine, located on the N. & W. R. R., about eight miles east of Thacker, is a drift opening operating the Kit-tanning seam. On account of the depression in the coal trade, it has been idle the whole year.

A. R. RAWN, Supt.

GLEN ALUM COAL COMPANY.

Series No. 1266. *No. 1 Mine.*—This mine, located on the Alum Creek branch of the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by a twelve-foot Crawford & McCrimmon fan, is good. Roof is good; drainage good. Rules are posted in the different languages. Stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

E. C. LAMBERT, Supt.

JAMES GENT, Mine Foreman.

Series No. 1267. *No. 2 Mine*.—This mine, located on the Alum Creek branch of the N. & W. R. R., is a drift opening operating the Thacker seam of coal. Ventilation produced by a twelve-foot Stine fan, is good. Roof is bad but carefully timbered. Drainage good. Doors and stoppings in good condition. Rules are posted in the different languages. Stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

E. C. LAMBERT, Gen. Supt.

FRANK McCLOSKEY, Mine Foreman.

WAR EAGLE COAL COMPANY.

Series No. 1268. *Star Mine*.—This mine, located at War Eagle, is a drift opening in the Kittanning seam. On account of the coal trade depression it has been idle all year.

G. W. COFFEY, Supt.

WAR EAGLE COAL COMPANY.

Series No. 1269. *Pappoose Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening operating the Kittanning seam. Ventilation produced by two furnaces is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted. Stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements.

G. W. COFFEY, Supt.

J. K. COFFEY, Mine Foreman.

WAR EAGLE COAL COMPANY.

Series No. 1270. *Mephisto Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening operating the Kittanning seam. Ventilation produced by two furnaces is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted and stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

G. W. COFFEY, Supt.

J. A. EARNEST, Mine Foreman.

Series No. 1271. *War Eagle Mine*.—This mine, located at War Eagle on the Turkey Creek Branch of the N. & W. R. R., is a drift opening in the seam of coal overlying the Kittanning. It has been idle all year and no inspection has been made.

G. W. GOFFEY, Supt.

MARGARET MINING COMPANY.

Series No. 1272. *Margaret No. 1 Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening in the seam overlying the Kittanning. It has been idle all year and no inspection made.

S. T. LAMBERT, Supt.

Series No. 1273. *Margaret No. 2 Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening in the Kittanning seam. Ventilation produced by a Crawford & McCrimmon fan is good. Roof is good; drainage good. Doors and stoppings fair. Rules are posted and stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

S. T. LAMBERT, Supt.

H. H. KELLEY, Mine Foreman.

APPENDIX.

APPENDIX.

EXAMINATION OF CANDIDATES FOR DISTRICT MINE INSPECTORS.

Owing to the large number of applications received for the positions of District Mine Inspector, and there being only twelve inspectorships to fill, it was deemed advisable to select from the list those who by training and experience were best fitted for the duties of the office. The plan of requiring the candidates to undergo an examination touching upon their qualifications, adopted by the former Chief of the Department, was thought to be worthy of a continuance.

Although the laws of the state make no provision for a Board of Examiners, the duty devolves upon the Chief to appoint the District Inspectors, and as he could not personally know of the qualifications of each applicant it was decided, after a conference with the Governor, that an Examining Board would be a proper means by which the qualifications of the candidates could be determined.

On May 14, 1909, the Chief named the following persons to comprise a Board of Examiners:

Messrs. J. W. Heron, Chairman.	D. C. Kennedy,
C. E. Krebs,	Benj. Davis,
A. J. Stewart,	John Phillips.

The Board upon convening appointed Mr. J. E. Paul its Secretary.

It was advertised throughout the state that examinations would be held to pass upon the qualifications of candidates for the position of District Mine Inspector.

On May 20, 21st, and June 7, 1909, the Examining Board convened and examined sixty-nine applicants, of which thirty-one, or nearly 45% of the entire number, obtained the required percentage making them eligible to appointment.

The following is a list of those who successfully passed the examination:

Blankensopp, L. L.,	Mitchell, Samuel,
Boyd, Thomas,	Muir, Robt. Y.,
Bell, John,	Nicholson, Wm.,
Blake, Jesse,	*Parsons, F. E.,
Combs, G. B.,	Pinkney, H. H.,
Clark, John,	Plaster, W. B.,
Crichton, Wm.,	Phillips, D. R.,
*Grady, P. A.,	Roach, L. R.,
*Hill, Bonner H.,	Reid, Wm.,
Humphries, John,	Smith, Lemuel,
*Henry, Earl A.,	Schoew, Karl F.,

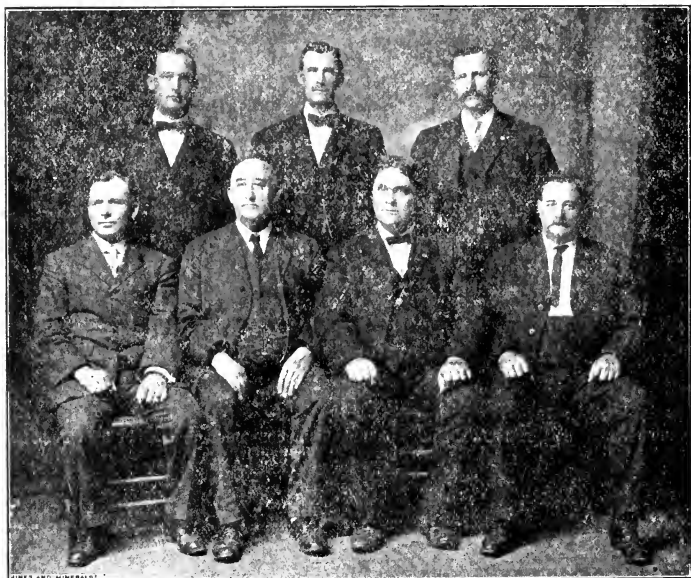
Holliday, L. B.,
 Jackson, J. H.,
 Keefe, W. J.,
 Lee, W. D.,
 Mitchell, Arthur.

Thomas, Jesse,
 Vaughan, L. D.,
 Wallace, R.,
 Warner, Wm.

From the above list the following were appointed as District Mine Inspectors:

Karl F. Schoew,
 L. D. Vaughan,
 W. B. Plaster,
 xF. E. Parsons,
 xE. A. Henry,
 xReappointed.

xB. H. Hill,
 L. B. Holliday,
 R. Y. Muir,
 Arthur Mitchell,
 Wm. Nicholson,
 xP. A. Grady.



Mine Inspectors Examining Board.

Reading from left to right, standing: Benj. Davis, J. W. Heron, A. J. Stewart; sitting: D. C. Kennedy, J. E. Paul, C. E. Krebs, John Phillips.

In the pages following will be found a tabulated statement of the prosecutions for the year ending June 30th, 1909.

A report of the foreign experts from Belgium, Germany and England.

A Bill to amend and re-enact certain sections of the existing Mine Laws.

Features of the Mine Laws as they now exist.

Opinion of Attorney General.

Report of Explosions.

Correspondence relating to the discontinuance of Safety Lamps in the Rush Run and Red Ash mines.

Discontinuance of Bulletin.

Prosecutions.

Kanawha River Locks and Dams.

In the month of October, 1908, we were honored by a visit from three foreign mining experts, who had been invited by the United States Government officials to make a tour of inspection through the typical mines of the different states, and to submit a report, embodying therein such recommendations as they deemed necessary for the provision of greater safety in mines and the prevention of accidents. This report follows:

REPORT OF FOREIGN EXPERTS ON THE PREVENTION OF MINE EXPLOSIONS.

Thursday, October 22, 1908.

PREVENTION OF MINE EXPLOSIONS.

Foreign Experts Make Report to Secretary of Interior.

Washington, D. C., October 22, 1908.—(Special.)—The Geological Survey issues today a report on the prevention of mine explosions, submitted by three foreign experts, Victor Watteyne, inspector-general of mines, Belgium; Carl Meissner, councillor for mines, Germany; and Arthur Desborough, H. M. inspector of explosives, England. These engineers have been in the United States for six weeks, coming at the invitation of the United States Government to assist the Federal authorities in beginning the investigations authorized at the last session of Congress. The report was presented to Secretary Garfield, who transmitted it yesterday to President Roosevelt, stating that the report with its recommendations will be of the highest importance in aiding Congress and the different state governments in providing legislation to insure more efficient and careful operation of coal mines, by the adoption of mining methods and safety appliances that will materially aid in preventing such terrible losses of life as have occurred through mine explosions in recent years.

In view of the fact that this report is the first result of the Geological Survey's scientific and practical study of the conditions under which more than half a million miners work, the President ordered its im-

mediate publication and distribution among the coal-mine operators and miners of the country. The report is addressed to the Secretary of the Interior, and with its recommendations is as follows:

Report.

In response to your request that we cooperate with the United States Geological Survey in the inauguration of its investigations looking to the prevention of mine explosions, and that we submit for the consideration of those connected with the coal-mining industry in the United States such recommendations as experience in our own countries and observation among American coal mines indicates may be useful in providing for greater safety, we beg to submit the recommendations given below.

Since coming to the United States, we have given careful attention to and approve the investigations in relation to this subject begun by the Geological Survey. We have visited typical mines in the more important coal fields of the United States, and have discussed the mining problems with many coal operators, miners, and state inspectors.

To be effective, investigations for the benefit of mining must be continuous. The opening up of new mines, the deepening of old mines, the meeting with new conditions, the changing of explosives, and the inauguration of new processes and methods will call for continuous investigations, to be followed by continuous educational work.

Our investigations and recommendations relate primarily to questions of safety in mining; but in this connection we have been greatly impressed with another closely associated phase of the industry, viz, the large and permanent loss of coal in mining operations in many portions of the United States. This is a serious, permanent, and national loss. It seems to be a natural outcome of the ease with which coal has been mined in the United States and the enormously rapid growth of the industry.

The active competition among the operators and the constant resulting effort to produce cheaper coal has often naturally led to the mining of only that part of the coal which could be brought to the surface most easily and cheaply, leaving under ground, in such condition as to be permanently lost, a considerable percentage of the total possible product. Certainly much of this loss can be prevented through the introduction of more efficient mining methods, such as the long-wall system, more or less modified, the flushing method, (See "H," 7.)

In the preparation of these recommendations we have recognized fully the great differences between the mining conditions in Europe and those in America, where the industry has developed so rapidly that thorough organization has not yet been possible; where a large percentage of the men entering the mine are unfamiliar either with mining methods or the English language; and where the price of coal at the mine is less than half that in Europe. Nevertheless, we be-

lieve that these recommendations will be found useful in the further development of the American coal-mining industry for safety and efficiency. The cordial reception everywhere accorded us leads us to believe that these recommendations will be received by the operators and miners in the same spirit of good will as that in which they have been prepared. But the success of this movement for greater safety and efficiency will depend upon the hearty and patient cooperation of the operators and the miners, working together for the accomplishment of this purpose.

RECOMMENDATIONS.

A. Selecting the Explosives to be Used.

(1) We recommend that the Government of the United States examine the explosives now and hereafter used in mining, with a view to eliminating the more dangerous explosives and to improving and standardizing such explosives as may be considered most suitable for such use, these to be designated by the Government "permissible explosives."

The term "permissible explosives" is suggested for the reason that no explosives are entirely safe, and all of them develop flame when ignited; and we advise therefore against the use in the United States of the terms "safety explosives" or "flameless explosives," as these terms may be misunderstood and this misunderstanding may endanger life.

(2) We recommend that the operators and miners of coal use only such explosives as are included in a list of "permissible explosives," when the same has been published by the Government, in all mines where there is risk of igniting either dust or gas, selecting that one which their own experience indicates can be used to the best advantage under local conditions.

(3) We also recommend that investigations be conducted to determine the amount of charge of such "permissible explosives" which may be used to the best advantage under different conditions with a view to reducing danger to the minimum.

B. Carrying the Explosives Into the Mines.

(1) All explosives should be made into cartridges and placed in closed receptacles before being carried into the mine, and the quantity carried into the mine during one day by any miner should be limited as nearly as practicable to the quantity needed by him for use during that day. Handling loose explosives and making them into cartridges by an open light in the mine should be prevented.

(2) Detonators or caps should be handled with great care, and should be carried only by a limited number of responsible persons.

C. Use of Explosives in the Mine.

(1) Shooting in or off the solid should not be practiced.

(2) The depth of the shot hole should be less by at least 6 inches than the depth of the cutting or mining. The use of very deep shot holes should be avoided as unnecessarily dangerous.

(3) The overcharging of shots (the use of a larger charge than is required to do the work satisfactorily) should also be avoided as unnecessary and dangerous. The proper standardization of explosives used in coal mining will greatly facilitate the carrying out of this recommendation. (See also "A," 1.)

(4) Shots should never be tamped with fine coal or material containing coal. Clay or other suitable material should be supplied and used for this purpose.

(5) The firing of two or more shots in one working place, except simultaneously by electricity, should not be allowed until a sufficient interval has elapsed between the firings to permit an examination of the working place, in order to see whether any cause of danger has arisen.

(6) Before a shot is fired the fine coal should be removed from the working place, as far as practicable, and the coal dust on the floor, sides, and roof, for a distance of at least 20 yards from the place where the shot is to be fired, should be thoroughly wet, unless it has been demonstrated that the dust in the mine is not inflammable. (See also "E," 1.)

(7) If gas is known to occur in the mine, no shot should be fired until, in addition to the watering, an examination made immediately preceding the time for firing, by a competent person, using a lamp which will easily detect 2 per cent. of gas, has shown the absence of that amount of gas from all spaces within 20 yards of the point where the shot is to be fired.

(8) Believing that such will be one of the greatest advances which can be made in safeguarding the lives of the miners, we recommend the adoption of a system of electric shot firing, in all mines where practicable, by which all shots in the mine, or in each ventilation district of the mine, may be fired simultaneously, at a time when all miners and other employees are out of the mine.

D. Keeping the Mine Roadways Clean.

(1) The roadways of the mines should be kept as free as possible from loose coal which may be ground into dust and of rubbish in which such dust may accumulate, in order to facilitate the removal and wetting of the dust.

E. Wetting the Coal Dust.

(1) In all coal mines where explosives are used it is desirable, and in all mines containing gas it is highly important, that the dust on the

walls, timbers, and floors of the working places and roadways should be kept continually wet prior to and during the work in the mine. If, however, conditions of roof or lack of water render this general watering impracticable, at least the dust within 20 yards of each shot should be wet before each firing, and other precautions against explosions should be practiced with unusual care.

It is our opinion that a system of watering which occasionally sprinkles the floor only and leaves dry the dust on the walls and timbers of the roadways is useless and is also dangerous in that it may generate an unwarranted feeling of security against an explosion.

F. Special Precautions for Mines Containing Gas.

(1) In any mine where as much as 2 per cent of gas can be detected by suitable method only locked safety lamps of an approved type should be used so long as such condition exists or is likely to recur.

All safety lamps should be maintained in good condition, cleaned, filled, kept in a special room at surface, and carefully examined both when delivered to the miner and when returned by him at the close of each day's work. A defective safety lamp is especially dangerous because of the false feeling of security it engenders.

In the filling of lamps with benzine or other low-flash oils, which should always be done at the surface, special precautions against fire or explosions should be taken.

G. Use of Electricity.

(1) Electricity in mining operations offers so many advantages, and has been so generally adopted, that no reasonable objection can be made to its use under proper restriction. The electrical equipment, however, should be installed, maintained, and operated with great care, and so safeguarded as to minimize danger from fire or shock. The fact that the effectiveness of some insulating materials is soon destroyed in most mines should not be lost sight of.

We recommend the following precautions: For distribution underground the voltage should not exceed 650 direct current or 500 alternating current these voltages being intended for transmission to machinery operating at 500 volts direct current and 440 volts alternating current, respectively. Even lower voltages are preferable. The trolley wires should be installed in such manner as to render shocks least likely; that is, placed either high enough to be beyond easy reach or at one side of the track and properly protected.

Where current at a potential of more than 650 volts is employed for transmission underground, it should be transmitted by means of a completely insulated cable; and where a lead or armored covering is used, such covering should be grounded.

In all mines having electric installation special precautions should be taken against the setting on fire of coal or timber. Inclosed fuses

or cutouts are recommended, and each branch heading should be so arranged that the current may be cut off when necessary.

No live electric wire should be permitted in that part of any mine in which gas is found to the amount of 2 per cent.

In all mines producing gas in dangerous quantities, as indicated by a safety lamp which will detect 2 per cent. of gas, the working places should be examined for gas by a qualified man, using such a lamp, immediately before any electric machine is taken or operated there.

H. Precautions Against Miscellaneous Accidents.

(1) In all new construction, shaft lining and superstructures about the entrance of the shaft (or slopes or drifts) should be built as far as practicable of noncombustible materials.

About the entrances to mines every possible precaution should be taken to prevent fires or the injury of the equipment for ventilation and haulage. Ventilating fans should be placed at one side of the mine opening, and hinged doors or light timbering should render easy the escape of the explosive force in direct line of the shaft or slope.

Proper precautions should be taken for immediately preventing the entrance into the mine of heat and gases and for facilitating the escape of the men in case of surface or shaft fires.

(2) The surface equipment for handling the coal should be so arranged as to prevent coal dust from entering the mine shaft.

(3) In all new mines, and in all old mines as far as practicable, suitable man roads should be provided for the men separate from the main haulage roads.

(4) In connection with the system of ventilation it is recommended that in the more frequented roads connecting the intake with the return air courses, two doors be provided, these doors to be placed at such a distance apart that while one is open the other is closed.

(5) In view of the large number of accidents from falls of coal or roof, under the existing practice with single props, more attention should be given to the introduction in mines where the roof is bad of better systems or timbering, such as have been long in use with economy and safety in many well managed mines.

(6) In undercutting coal by hand, the premature fall of the coal should be prevented by sprags or other suitable supports.

(7) We believe that the difficulties and dangers encountered in the working of coal seams which are thick and steeply pitching, or of which the coal is highly inflammable in character or subject to firing from spontaneous combustion, and in mines where the subsidence of the surface must be avoided, may be successfully and economically overcome in many cases through the adoption of the flushing system of mining—that is, the filling with sand or other similar materials of the space from which the coal is removed. This system originated

in the United States and is now successfully practiced in portions of Germany, Austria, Belgium, and France.

I. Mine Supervision and Inspection.

(1) We can not too strongly emphasize the fact that thorough discipline about the mine is absolutely essential to safety, and that thorough discipline can be brought about only through the hearty cooperation of the operators, the miners, and the State.

(2) We are of the opinion that the responsibility for safety in the mine should primarily rest with some person, such as the manager or superintendent, clothed with full authority; and that such person can greatly facilitate the attainment of safety through the employment of a sufficient number of foremen, and also of one or more inspectors whose special duty it shall be to see that the regulations are strictly enforced.

(3) The State can not exercise too much care concerning the experience, technical training, and selection of its inspectors. Their positions should be made independent of all considerations other than that of efficiency; and their continuance in the service should be co-existent with good behaviour and proper discharge of official duty.

J. Training for Mine Foremen, Inspectors, etc.

We are of the opinion that the cause of both safety and efficiency in coal mining in the United States would be greatly aided through the establishment and maintenance in the different coal regions of special schools for the training of fire bosses, mine foremen, superintendents, and inspectors. The instruction in such schools should be practical rather than theoretical.

The work of these schools would supplement most effectively that of the colleges already established in many parts of the country for the more thorough training of mining engineers.

A BILL PRESENTED TO THE LEGISLATURE OF 1909 BY THE DEPARTMENT OF MINES TO AMEND AND RE-ENACT CERTAIN SECTIONS OF THE EXISTING MINING LAWS, BUT NO ACTION WAS TAKEN THEREON.

A Bill to amend and re-enact sections 1, 2, 4, 8, 11, 13, 15, 23 and 25 of an act of the Legislature of West Virginia passed February 27, 1907, and entitled,

“An act to create the department of mines, to provide a more efficient system of mine inspection, to re-district the state for the purpose of mine inspection, and to regulate mining operations.”

Which act appears as chapter 78 of the printed acts of the Legislature of West Virginia passed at the regular session of 1907.

Be it enacted by the Legislature of West Virginia:

That sections 1, 2, 4, 8, 11, 13, 15, 23, and 25 of an act of the Legislature of West Virginia passed February 27, 1907, and entitled,

"An act to create the department of mines, to provide a more efficient system of mine inspection, to re-district the state for the purpose of mine inspection, and to regulate mining operations,"

(Which act appears as chapter 78 of the printer acts of the Legislature of West Virginia passed at the regular session of 1907), be and the same are hereby amended and re-enacted so as to read as follows:

Sec. 1. There is hereby created an executive department to be known as the "Department of Mines," which shall have for its purpose the supervision of the execution and enforcement of all State laws pertaining to the inspection of mines, heretofore and hereafter enacted for the safety of persons employed within or at the mines within this State, and the protection of mine property and other property used in and in connection therewith; and the said department of mines shall be in charge of an official to be known as the chief of the department of mines, who shall have full charge of said department, and who shall superintend and direct the inspection of mines as herein provided and as provided by any other state law not in conflict with this act.

The chief of the department of mines shall keep a record of all inspections made by himself and the district mine inspectors, which shall be a permanent record properly indexed; the record of the department of mines shall at all times be open to inspection by any citizen of this state, and upon the request of the Governor of the State the chief of the department of mines shall lay said records before said officer, also maps of mines furnished the chief of the department of mines by the district mine inspectors; any chief of the department of mines who shall violate any of the provisions of this act shall, upon conviction, be fined not less than twenty-five nor more than two hundred dollars, and may in the discretion of the court be imprisoned in the county jail not exceeding one year.

The chief of the department of mines shall be a male citizen of West Virginia, and shall be a competent person, having had at least eight years' experience in the working, ventilation and drainage of coal mines in this state and having a practical and scientific knowledge of all noxious and dangerous gases found in such mines, and to enable the said chief of the department of mines to perform his duties he shall have the same authority to visit, enter and examine, the mines as is conferred upon the district mine inspector, and he shall have the authority to call the assistance of any of the district mine inspectors to any district in the State.

The present Chief of the Department of Mines and all present District Mine Inspectors shall continue in office with their existing salaries and allowances for expense to be paid as now provided by law until the first day of September, 1909, or until their successors shall be duly appointed and qualified, unless sooner removed as provided by law. And the Governor of this State shall with the consent of the Senate appoint a Chief of the Department of Mines whose term of office shall begin with the first day of September, 1909, and shall be

for four years, or until his successor shall be duly appointed and qualified; and the Governor with the consent of the Senate shall each four years thereafter appoint a Chief of the Department of Mines for the term of four years or until his successor be appointed and qualified, but no person shall be appointed Chief of the Department of Mines to take office after the 31st day of August, 1909, except from the list of names to be certified to by the Governor of the Board of Examiners as hereinafter provided for.

The salary of the Chief of the Department of Mines shall be five thousand dollars per annum and traveling expenses which shall be paid monthly out of the State Treasury upon a requisition upon the State Auditor certified by the Chief of the Department of Mines.

The Governor of this State shall within sixty days after this act takes effect appoint a Board of Examiners consisting of four members, two of whom shall be coal operators and the remaining two shall be mining engineers of known reputation; whose term of office shall commence on the first day of July, 1909. One member shall be appointed for a term of three years; one for a term of six years; one for a term of nine years; and one for a term of twelve years, and as each term of office expires the Governor shall appoint a successor whose term of office shall be twelve years. Any vacancy occurring in this Board, through death or otherwise, shall be filled by the Governor who shall appoint a successor to serve for the unexpired term.

The said Board of Examiners shall be permitted to engage the services of a clerk, and they, together with the clerk shall each receive the sum of five dollars per day for every day they are actually engaged in the discharge of their duties and mileage at the rate of six cents per mile from their home to the place of meeting and return, by the nearest practicable railway route.

The duties of this Board of Examiners shall be to examine candidates for the office of deputy mine inspector, and three of them shall agree in their recommendation of all candidates to the chief of the department of mines. No candidates shall be so recommended who has not answered correctly at least ninety per centum of the questions. The names of the applicants, the questions asked and answered thereto shall be sent to the Chief of the Department of Mines. It shall also be the duty of the Board of Examiners to furnish all successful candidates a certificate setting forth that they have satisfactorily passed such examinations and are eligible to appointment to the office of district mine inspector; and persons receiving such certificate shall be entitled to mine foreman's certificate of the first class without further examination and all applicants for such examination must have a knowledge of the different systems of working coal mines and must give satisfactory evidence to the Board of Examiners of having had experience in mines in which noxious gases are generated.

The Board of Examiners shall meet in the City of Charleston the second Monday in May in each year and at such other times in said city as the Chief of the Department of Mines shall require. Notice of such examinations as may be required by the Chief of the Depart-

ment of Mines shall be given by him by publication in at least one paper of general circulation published in each of the mining districts.

Before entering upon the discharge of their duties hereunder each of the said examiners shall be sworn to a faithful discharge of his duty.

No person shall be appointed a deputy mine inspector to take office after the 31st day of August, 1909, unless he holds a certificate issued by the Board of Examiners as aforesaid.

It shall also be the duty of said Board of Examiners to certify to the Governor upon demand the names of such persons as shall in their judgment be qualified to fill the office of Chief of the Department of Mines; and no person shall be appointed Chief of the Department of Mines to take office after August 31st, 1909, except from names as certified as aforesaid.

Sec. 2. Prior to the first day of August, 1909, the Chief of the Department of Mines shall appoint fifteen district mine inspectors so as to give one inspector for each mining district in the State as the same will exist on and after the first day of September, 1909, whose term of office shall begin on said last named day and continue for four years or until their successors be appointed and qualified unless sooner removed as provided by law; and he shall direct or prescribe in which of said districts each of said inspectors shall serve; and the Chief of the Department of Mines shall each four years thereafter appoint one inspector for each of said districts.

No person shall be eligible to the office of district mine inspector except as herein before provided. The salary of each district mine inspector shall from after the first day of September, 1909, be two thousand five hundred dollars per annum, and actual expenses; such salary and expenses shall be paid monthly out of the State Treasury upon the approval of the Chief of the Department of Mines; *provided*, that before payment of such expenses shall be made to the inspector he shall file an account of such expenses, verified by his affidavit, showing that they accrued in the discharge of his official duties; every person so appointed district mine inspector must have attained the age of thirty years and must be a citizen of West Virginia, and he shall not while in office, be interested as owner, operator, agent, stockholder, superintendent or engineer of any coal mine, and he shall be of good moral character and temperate habits. An inspector of mines shall be removed from office by the Chief of the Department of Mines of this State for incompetency, neglect of duty, drunkenness, malfeasance and for other good causes.

Each of the district mine inspectors shall report in writing monthly to the Chief of the Department of Mines the number and condition of all mines inspected by him during each month and shall deliver to the operator or operators of each mine inspected a certificate of inspection, and shall post a duplicate certificate at a prominent place of the operating company where it may be conveniently read by any of the mine employes; said duplicate certificate shall remain posted until a subsequent certificate is issued by the district mine inspector,

and he shall visit each mine in his district at least once in every sixty days or oftener if called upon in writing by ten men engaged in any one mine, or the owner, operator or superintendent of such mine, and make a personal examination of the interior of all mines, and outside of the mine where any danger may exist to the workmen, in their respective districts, and shall particularly examine into the condition of mines as to ventilation, drainage and general safety and shall make a report of such examinations, and he shall see that all the provisions of the mining statutes are strictly carried out; and it shall be unlawful for any district mine inspector to appoint any deputy or other person to do and perform any work required of such inspector, any mine inspector, failing to comply with the requirements of this act shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not less than one hundred dollars and not more than five hundred dollars and be dismissed from office, the chief of the department, of mines and the district mine inspectors shall each upon entering upon the discharge of his duties take oath of office prescribed by the constitution and shall furnish bond in the sum of two thousand dollars, with security to be approved by the Governor conditioned upon the faithful discharge of his duty, a certificate of which oath and bond shall be filed in the office of the Secretary of State. Vacancies in the office of the department of mines or district mine inspector shall be filled by appointment for the unexpired term.

Sec. 3. Each mine inspector shall, for each year ending the thirty-first day of August, make a written report to the Chief of the Department of Mines of his proceedings, stating therein the number of mines in his district, the improvements made at the mines, the extent to which this act is obeyed or violated and such other information in relation to the mines and mining as he may deem of public interest, or as may be required of him by the Chief of the Department of Mines; he shall also suggest or recommend such legislation on the subject of mining as he may think necessary; such reports shall be filed with the Chief of the Department of Mines on or before the thirtieth day of November next succeeding the year for which it was made; the Chief of the Department of Mines shall annually make a full and complete written report of his proceedings to the Governor of the State for the year ending the thirty-first day of August; such report shall include the reports of the district mine inspectors, the number of visits and inspections made in the State by the district inspectors, the quality of coal and coke produced in the State, the number of men employed, number of mines operated, ovens in and out of blast, improvements made, prosecutions, etc., and such other information in relation to the subject of mines, mining inspection and needed legislation as he may deem of public interest and beneficial to the mining interests of the State; such report shall be filed with the Governor on or before the thirtieth day of December next succeeding the year for which it was made, and such report shall be printed upon the requisition of the Governor and in order that the report shall be annually printed and distributed among the operators, miners and citizens of

the State, the sum of fifteen hundred dollars annually is hereby appropriated out of the State Treasury for this special purpose.

Sec. 4. The Chief of the Department of Mines by and with the approval of the Governor shall, prior to the first day of July, 1909, divide the state into fifteen mining districts in such a manner as to equalize as far as practicable the work of each district inspection which division shall go into effect on the first day of September, 1909, but the present mining district shall continue until said last named day.

Sec. 5. The operator or agent of every coal mine shall, within six months after the passage of this act, make or cause to be made, unless already made and filed, an accurate map or plan of such mine, on a scale to be stated thereon of one hundred or two hundred feet to the inch; such map or plan shall show the openings or excavations, the shafts, slopes, entries, airways with darts or arrows showing the direction of air currents, headings, rooms, pillars, etc., and such portions of such mine or mines as may have been abandoned, the general inclination of the coal strata, and so much of the property lines and the outcrop of the coal seam of the tract of land on which said mine is located, and may be within one thousand feet of any part of the workings of such mine; a true copy of such map or plan, shall within six months aforesaid be delivered by such operator to the inspector of his district, to be preserved among the records of his office and be turned over to his successor in office; but it is provided that in no case shall any copy of the same be made without the consent of the operator or his agent; and the original map, or a true copy thereof, shall be kept by such operator at the office of the mine, and open at all reasonable times for the examination and use of the inspector, and such operator shall, twice within every twelve months, and not more than seven months apart, while the mine is in operation, cause such mine to be surveyed and the map thereof extended so as to accurately show the progress of the workings, the property lines and the outcrop as above provided and he shall immediately thereafter notify the inspector of his district who shall forward to the said operator or his engineer, the maps held by such inspector to be extended as above required.

Sec. 6. If the operator or agent of any coal mine shall neglect or fail to furnish to the mine inspector of his district any copy of map or extension thereof as provided in preceeding section of this act, the mine inspector is hereby authorized to cause a correct survey and map or plan of said coal mine or the extension thereof to be made at the expense of the operator of such mine, the cost of which shall be recoverable from said operator as other debts are recoverable by law; and if at any time the Chief of the Department of Mines have reason to believe that such map or plan or extension thereof furnished in pursuance of the preceding section be materially incorrect such as will not serve the purpose for which it was intended, he may have survey and map or plan or the extension thereof made or corrected and the expense of making such survey and map or plan or extension thereof under the direction of said chief of the department of Mines shall be paid by the operator and the same may be collected as other debts

are recoverable by law; and if found incorrect the expense thereof is to be paid by the State.

Sec. 7. After the passage of this act each operator of a coal mine, before making any additional mine opening, shall furnish the district mine inspector of the district in which the mine is located, a plan of the proposed openings and mine development.

Sec. 8. Within thirty days after this act becomes a law, the Chief of the Department of Mines shall appoint four Boards to be appointed from residents of the several inspection districts, to examine mine foremen and fire bosses, with powers and duties as hereinafter provided, whose term of office will begin on the first day of July, 1909, and be for two years; and like Boards shall be appointed in the same manner, during the month of May, 1911, and every four years thereafter, whose term of office shall begin on the first day of July next after the appointment thereof, and be for four years. All vacancies on said Board shall be filled for the unexpired term by appointment in the same manner as the original appointments are made.

Each of said Boards shall be composed of three members, consisting of a district mine inspector and a practical operator, manager or superintendent, and a practical mining engineer. Said district mine inspector shall be the President of said board unless the other members otherwise direct.

Each person appointed a member of said board shall, before entering upon the discharge of his duties, take and subscribe the oath prescribed by law, which shall be filed in the office of the Chief of the Department of Mines. The duties of said board shall be to examine persons desiring to become qualified to act as mine foremen or fire bosses.

Each of said boards shall, except as hereinafter provided hold four examinations each year which shall not be more than four months apart, and shall be held at such convenient and accessible places as the Chief of the Department of Mines may designate. Every person desiring to take examination for this purpose of obtaining a certificate as mine foreman or fire boss shall file at the office of the Chief of the Department of Mines his written request to that effect, and before holding any examination the Chief of the Department of Mines shall give every such applicant at least ten day's notice of the time and place of such examination, and of the first and second examinations held under this law, the Chief of the Department of Mines shall give at least fifteen day's notice to each and every operator or superintendent in the State employing as many as ten miners, which notice, or a copy thereof, when received by such operator or superintendent shall be posted at some conspicuous place about every mine operated by him or under his control in which as many as ten miners are employed. Nothing in this section shall prevent any applicant from appearing at any examination held in any district in this State and taking said examination although no prior application to take same may be made. After four examinations are held in this State as hereinbefore provided, no other examination shall be held until at least ten applications for

such examinations be filed with the Chief of the Department of Mines, unless the Chief of the Department of Mines so directs.

Said examinations shall be for the purpose of ascertaining the qualifications of persons desiring to act as mine foremen, or as fire bosses in the coal mines of the State; and for the purpose of this act mine foremen are divided into two classes to be known as mine foremen of the first class, and mine foremen of the second class; and the certificate that may be issued to the first class shall be known as mine foreman's certificate of the first class, and those that may be issued to the second class shall be known as mine foreman's certificate of the second class; but there shall be but one class of fire bosses and certificates that may be issued to them shall be known as fire bosses' certificates. A mine foreman's certificate of the first class shall show that the party to whom it is issued is of good character and temperate in habits and has such practical experience and knowledge of mining as the law requires and is qualified and authorized to perform the duties of mine foreman or fire boss in any coal mine in this state; and a mine foreman's certificate of the second class shall show that the party to whom it is issued is of good character, and temperate habits and has such experience and knowledge of mining as the law requires and is qualified and authorized to perform the duties of mine foreman in any coal mine in this State not producing gas in dangerous quantities, and to perform the duties of an assistant mine foreman in any mine in this State.

A fire bosses' certificate shall show that the party to whom it is issued is of good character and temperate habits and has such experience and knowledge of mining as the law requires, and is qualified and authorized to perform the duties of a fire boss in any coal mine of this State; said examinations may be written, or partly written and partly oral, as the Chief of the Department of Mines may direct, and in every examination the questions asked shall be such as will enable the board to determine from the answers whether the applicant is qualified to act in the capacity desired by him, which questions shall cover the conditions met with and the precautions which should be observed and so much of the mining laws of this State as may be applicable as shall appear to be necessary for the protection of the lives and the health of the employes and the property of the employer or owner in and around the coal mines of this State, but no questions of a technical character not necessary to test the qualifications of the applicant shall be asked. Immediately following each examination the board holding the same, shall, upon a form to be furnished by the Chief of the Department of Mines, certify the result of such examination to the Chief of the Department of Mines, giving the name and address and a statement as to the qualifications, character and habits of each applicant who has successfully passed such examination and is entitled to a certificate as herein provided, together with such other information as may be required by the Chief of the Department of Mines, and the Chief of the Department of Mines shall thereupon issue to the person so named the proper certificates to which each is

entitled, which certificates shall be signed by the Chief of the Department of Mines, and bear the seal of his office.

No examination shall be held under this law before the first day of July, 1909; and no mine foreman or fire boss shall be required to have a certificate as herein provided till after five examinations have been held; and no person who shall be employed as mine foreman or fire boss in any mine in this State at the time this law takes effect shall be required to take an examination so long as he may continue in such employment in such mine (or in any other mine of the same class operated by the same employer for whom he has been working) but to every such person if he be found of good character and of temperate habits and to have had such experience in and around coal mines of this State as the law requires, a service certificate shall be issued. The district mine inspector of each district shall, within sixty days after this law takes effect, certify to the Chief of the Department of Mines a list showing the names and addresses of each mine foreman and fire boss in his district, and name and address of the operator for whom he is working and the number or designation of the mine wherein he is employed, and whether such mine produces dangerous gases, and such other information as he may be required by the Chief of the Department of Mines pertaining to the character and habits and experience in and around the coal mines of this State of each and every mine foreman and fire boss and such other information as he may be required by the Chief of the Department of Mines. And the Chief of the Department of Mines shall within ninety days thereafter issue to every such mine foreman, and fire boss found to be of good character and temperate habits, and to have had such experience in and around the coal mines of this State as the law requires, a service certificate of the class to which he is entitled, which certificate shall be signed by the Chief of the Department of Mines and bear the seal of his office. And no examination or other certificate shall be required of the party holding such certificate as long as he continues to work in the mine in which he is then employed (or in any other mine of the same class by the same employer.) Mine foreman and fire boss's certificate or similar certificate issued under the authority of the laws of another State may in an emergency when approved by the Chief of the Department of Mines have the same force and effect in this State as if issued pursuant to laws thereof, provided, however, that the length of the time granted shall not extend more than ten days beyond the next meeting of an examining board after he has been employed.

The district mine inspectors occupying positions on said boards shall receive no other compensation for their services in holding examinations and certifying the results thereof, than that provided by the law as their salary as such inspectors and their traveling expenses. The other two members of said Board shall each receive as compensation for their services five dollars per day and their necessary traveling expenses each day actually employed in holding such examinations and certifying the results thereof and going to and from the places of examinations; provided, that neither of said members shall receive com-

pensation for holding more than four examinations each year nor for more than five days at each of said examinations. The compensation and expenses so to be paid, shall be paid out of the State Treasury upon warrants drawn upon the Auditor properly certified by the President of the Board. Each applicant before being examined shall pay the examining board the sum of one dollar, and one dollar additional for each certificate granted, which sum shall be paid into the State Treasury by the Chief of the Department of Mines.

Any members of the Boards herein provided may be removed by the Chief of the Department of Mines after receiving notice and an opportunity to be heard, for neglect of duty, incompetency, drunkenness, or malfeasance in office.

Any certificate issued under this section may be revoked upon the application of the Chief of the Department of Mines, a district mine inspector or any interested party, by the Circuit Court of the county wherein the party holding the same resides or is employed, or the judge thereof in vacation, upon proof before such court or judge thereof that the person to whom it was issued is not of good character or is of intemperate habits or is otherwise disqualified or is not competent to discharge the duties required of an employe under such certificate.

The provisions of this act covering examination of mine foreman and fire bosses shall be applicable to assistant mine foreman if left in sole charge of any mine in case of an emergency for more than sixty days at any one time.

Any operator of a coal mine in this State who shall employ a mine foreman or fire boss required to hold a certificate under this act and who does not, at such time, hold either a service or other certificate as herein provided, shall, upon conviction thereof be fined not less than one hundred dollars or more than five hundred dollars. And any person securing and attempting to secure employment as a mine foreman or fire boss by presenting a certificate belonging to another, or a certificate fraudulently obtained, shall upon conviction, be fined not less than one hundred dollars nor more than five hundred dollars, and shall be imprisoned in the county jail not less than thirty days or more than six months.

From and after the passage of this act, it shall be the duty of the mine foreman or the assistant mine foreman of every coal mine in this State to see that every person employed to work in such mine shall, before beginning to work therein, be instructed as to the particular danger, incident to his work in such mine, and furnish a copy of the mining law and rules of such mine.

Every inexperienced person so employed shall work under the direction of the mine foreman, his assistant or such other experienced worker as may be designated by the mine foreman or assistant until he is familiar with the danger, incident to his work, and it shall be unlawful for the operator, agent or mine foreman of any coal mine, to employ any person to work in said mine, or permit any person to be in said mine for the purpose of working therein, unless they are

in communication with at least two openings or outlets, separated by natural strata, of not less than one hundred feet, in breadth, if the mine be worked by shaft, and of not less than fifty feet in breadth at the outlets, if worked by slope or drift; to each of said outlets there shall be provided for the interior of the mine, a safe and available roadway properly drained, which shall at all times, while the mine is in operation, be kept from all obstructions that might prevent travel thereon in case of an emergency, and if either of said outlets be by shaft, it shall be fitted with safe and available appliances, such as stairs or hoisting machinery, which shall at all times, when the mine is in operation, be kept in order and ready for immediate use, whereby persons employed in the mine may readily escape in case of an accident.

This section shall not apply to any mine while work is being prosecuted with reasonable diligence in making communication between said outlets, necessary repairs and removing obstructions, so long as not more than twenty persons are employed at any one time in said mine; neither shall it apply to any mine, or part of a mine, in which a second outlet has been rendered unavailable by reason of the final robbing of pillars, preparatory to abandonment, so long as not more than twenty persons are employed therein at any one time.

For violation of this section the operator, agent or mine foreman, shall, upon conviction, be fined not less than fifty nor more than five hundred dollars or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 9. The operator or agent of every coal mine worked by shaft shall forthwith provide, and hereafter maintain, a metal tube from the top to the bottom of such shaft suitably adapted to the free passage of sound through which conversation may be held between persons at the top and at the bottom of the shaft, also the ordinary means of signalling, and an approved safety catch and a sufficient cover overhead on every carriage used for lowering or hoisting persons, and at the top of the shaft an approved safety gate, and an adequate brake on the drum of every machine used to lower or hoist persons in such shaft; and the said operator or agent shall have the machinery used for lowering or hoisting persons into or out of the mine kept in safe condition and inspected once in each twenty-four hours, by some competent person; and there shall be cut out or around the side of the hoisting shaft or driven through the solid strata at the bottom thereof a traveling way of not less than five feet high and three feet wide to enable a person to pass the shaft in going from one side of it to the other without passing over or under the cage or other hoisting apparatus.

Any operator or agent who shall fail or refuse to comply with the requirements of this section shall be guilty of a misdemeanor, and upon conviction, shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty days nor more than one year, in the discretion of the court.

Sec. 10. No operator or agent of any coal mine worked by shaft

or slope, shall place in charge of any engine, used for lowering into or hoisting out of said mine persons employed therein, any but competent and sober engineers; and no engineer in charge of such machinery shall allow any person except such as may be deputed for that purpose by the operator or agent, to interfere with any part of the machinery; and no person shall interfere with or intimidate the engineer in the discharge of his duties; and in no case shall more than ten persons ride on any cage or car at one time, and no person shall ride on a loaded cage or car in any shaft or slope.

All slopes, engine-planes or motor roads used by persons in any mine shall be made of sufficient width to permit persons to pass moving cars with safety, or refuge-holes of ample dimensions, and not more than sixty feet apart, and shall be made on one side of said slope, engine-plane or motor roads; such refuge-holes, shall be kept free from obstructions, and the roof and side thereof shall be made secure and be kept white-washed at all times; no person shall travel to or from his work upon any slope, engine-plane or motor roads when other good roads are provided for that purpose.

For violation of the foregoing provisions of this section the operator or agent or miner shall, upon conviction, be fined not less than fifty, nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 11. The operator, agent or mine foreman of every coal mine, whether worked by shaft, slope or drift, shall provide and hereafter maintain for every such mine ample means of ventilation, affording no less than one hundred cubic feet of air per minute for each and every person employed in such mine, and as much more as the district mine inspector may require, which shall be circulated around the main headings and cross-headings and working places, to an extent that will dilute, render harmless and carry off the noxious and dangerous gases generated therein; and as the working places shall advance break-throughs for air shall be made, or brattice shall be used so as to properly ventilate the face, and all the break-throughs between the intake and return air-ways not required for the passage of air shall be closed with stoppings substantially built with suitable material, which shall be approved by the district mine inspector, so as to keep the working places well ventilated.

All such break-throughs shall not exceed eighty feet apart in pillars where the height of the excavation is less than five feet, but where the height of the excavation is five feet or over and less than seven feet the break-throughs may be one hundred feet apart in pillars, and where the height of the excavation is not less than seven feet the break-throughs may be one hundred and twenty feet apart in pillars.

Not more than sixty persons shall be permitted to work in the same air currents; *provided*, that a larger number, not exceeding eighty persons may be allowed by the district mine inspector where, in his judgment, it is impossible to comply with the foregoing requirement.

No operator, agent or mine foreman shall permit any person to

work where they are unable to maintain at least one hundred cubic feet of air per minute, but this shall not be construed to prohibit the operator from employing men to make the place of employment safe and to comply with this requirement; *provided, further*, that while the repair work necessary to get the mine in condition to comply with the law, no person or persons shall be permitted to enter that part of the mine affected except those actually employed in doing the necessary repair work.

In all mines accumulation of fine, dry coal dust shall, as far as practical, be prevented, and such dust shall be kept properly watered down.

For violation of the foregoing provisions of this section the operator, agent or mine foreman, shall upon conviction, be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

In all mines of this State, except as hereinafter otherwise provided, there shall be used on and after the first day of September, 1909, practical experienced men of good habits to be known as shot-firers, who shall be selected by and be under the direction and control of the mine foreman, and who shall be in charge of all shooting and blasting in the mine, and no shot shall be discharged or fired except in the presence of and under the direction of the shot firer.

It shall be the duty of the shot-firer to see that the place is properly timbered before a shot is fired, and that the coal is properly mined; that the hole is properly placed and not drilled beyond the depth of the mining; he shall see that the holes are tamped with non-combustible material and shall take such other precautions as he may deem necessary to insure the safety of the miner. A shot-firer may fire without mining provided he has written permission so to do from the mine foreman.

The shot-firer, and such assistants as may be appointed by him, or the mine foreman, for that purpose, may carry explosives sufficient for his day's requirements, in properly insulated packages, but not exceeding twenty-five pounds at one time, and no person shall carry into a mine where shot-firers are employed therein any powder or other explosives except under direction of the mine foreman or shot-firer. The mine foreman may provide the use of lock boxes in the mine for the proper distribution of powder for the use of the shot-firer, but not exceeding twenty-five pounds at one time in any box, and not having more than one box in each shot-firer's district. Any person not a shot-firer who shall in violation of the foregoing provisions carry into or use in a mine any powder or other explosives shall, upon conviction, be fined twenty-five dollars, and in the discretion of the court be imprisoned not more than thirty days in the county jail. Any operator desiring to operate a mine without the use of shot-firer may at any time apply to the Chief of the Department of Mines for a written permit to that effect, and upon showing by satisfactory evidence that the conditions prevailing in such mine do not require

shot-firers for the safety of the persons employed therein, said operator shall be entitled to have issued to him such written permit by the Chief of the Department of Mines, which permit may be revoked at any time by said Chief when the conditions in said mine require the use of shot-firers for the safety of persons employed therein.

No miner or other person shall keep in or take into any mine exempted from shot-firers under permit as hereinbefore provided, any larger quantity of powder or other explosive than he may be reasonably expected to use in any one shift, and except where shot-firers are employed all powder shall be carried into the mine in metallic canisters of a capacity not to exceed five pounds; any person violating this provision shall, upon conviction, be fined twenty-five dollars for each offense, and in the discretion of the Court be imprisoned not more than thirty days in the county jail.

Sec. 12. In all mines generating fire damp, and where there is every reason to believe that gas will be encountered in the future workings and developments of the mine, the minimum ventilation shall be one hundred and fifty feet per minute for each and every person employed therein, and as much more as one or more of the district mine inspectors may deem requisite, and all stoppings on the main entries shall be substantially built with suitable material, which shall be approved by the district mine inspector, so as to keep the working places well ventilated; doors on main haulways shall be avoided in gaseous mines and where practicable, and overcasts built of masonry or other incombustible material, and of ample strength shall be adopted, and where doors are used they must be built in a substantial manner and hung so as to close automatically when unobstructed.

For violation of the foregoing provisions of this section the operator, agent or mine foreman, shall, upon conviction, be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

All unused workings and abandoned parts of the mines must be protected by such safeguards as will prevent the dangerous overflow of any standing gas therein, and all avenues leading thereto shall be so arranged and conducted as to give cautionary notice to all such workmen in such mines of the danger in entering therein; and in order to secure the safety of the workmen in general against the danger in said abandoned or worked-out parts of the mines, notices shall be put up and kept standing, as far as practicable, which shall afford warning to all such workmen not to enter such parts of said mine; and in addition thereto, all persons other than those specially charged with that duty, are hereby forbidden to enter such abandoned parts of such mines where gas may be found.

It shall be unlawful for any miner, after having exploded in any working place sixty cubical inches or more of powder, in one or more blasts, in any mine known to generate gas in large quantities, to enter such working place and attempt to resume work in any manner what-

ever with a naked light in less than twenty minutes after the blast has been exploded.

And for violation of these provisions of this act, such person or persons so offending shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not less than five dollars nor more than one hundred dollars, and be confined in the county jail not less than ten days nor more than one year. In all mines where explosive gas, or other gas of a dangerous or poisonous nature is known to generate in dangerous quantities, the workman shall be immediately instructed to withdraw from the mine in case of the stoppage of the fan, or heavy falls of the roof which may obstruct the main intake or return airway until such obstruction is removed.

Sec. 13. And it shall be unlawful in all mines where gas is being generated in dangerous quantities to use any other mechanical power for ventilating purposes except fan power, and the fan shall be kept in operation night and day unless written permission be granted by the chief of the department of mines or the district mine inspector in whose district the mine is situated; but no mine operator shall be required to keep such fan going where it is necessary to shut down for the purpose of repairing machinery or doing other work in the mines, which may make it necessary. . .

It shall be the duty of every mine owner or operator in this State whose mine or mines are known to generate fire damp or other dangerous gas or gases in dangerous quantities to employ a "fire boss" or "bosses" where necessary, who shall have a certificate of competency from the State as hereinbefore provided in section 8.

It shall be the duty of said fire boss or bosses where employed in said gaseous mines to prepare a danger signal with suitable color at the mine entrance, and no person except the mine operator or agent, and only then in case of necessity, shall pass beyond this danger signal until the mine has been examined by the fire boss, and the same or certain parts thereof reported by him to be safe; it shall further be the duty of said fire boss or fire bosses to go into all the working places of such mine or mines where gas is known to exist, or liable to exist in dangerous quantities, and carefully examine the same with a safety lamp, and do, or cause to be done, whatever may be necessary to remove from such working place or places, all dangerous gases and make the same safe for persons to enter therein as workmen in such mine or mines; such examination and removal of said gases shall begin within three hours before the time each shift commences work, and it shall be the duty of the said fire-boss at each examination to leave evidence of his presence at the face of every working place examined, and if the mine is safe he shall remove the danger signal, or change the color thereof to safety, in order that the employes may enter said mine and begin work, in the performance of the duties on the part of the fire-boss or bosses they shall have no superior officer, but all the employes working inside of said mine shall be subordinate to said fire-boss or bosses in this particular work; the fire-boss shall upon having completed the examination of the mine before each

shift, make a written record of the condition of the mine within a book having a form prescribed by the Chief of the Department of Mines, which record shall at all times be kept at the mine subject to the inspection of the district mine inspector or chief of the department of mines; it shall be unlawful for any person to enter said mine or mines for any purpose at the beginning of work upon each shift therein until such signal or warning has been given by said fire-boss or bosses on the outside of said mine or mines as to the safety thereof, as herein provided, except under the direction of said fire-boss or bosses, and then for the purpose of assisting in making said mine safe; and such person who shall enter such mine except as aforesaid, before such notice or signal has been given, or any operator, agent, or fire-boss who shall violate the provisions of this section, shall be guilty of a misdemeanor and upon conviction thereof shall be fined not less than fifty dollars nor more than five hundred dollars, or imprisoned in the county jail not less than sixty days nor more than one year.

Sec. 14. Mines in which explosive gas is generated in dangerous quantities from the coal or adjacent strata shall be worked exclusively by the use of locked safety lamps, and no open lamp nor torch shall be used except as may be permitted in writing by the district mine inspector; the safety lamps used for examining any mine or which may be used for working therein, shall be furnished by, and be the property of the operator of the mine, and shall be in the charge of some person to be designated by the "fire boss," and at least two safety lamps shall be kept at every coal mine whether such mine generates fire damp or not.

Any operator, agent or other person who shall fail or refuse to comply with the requirements of this section shall be guilty of a misdemeanor and upon conviction shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty days nor more than one year, in the discretion of the court.

Sec. 15. In order to better secure the proper ventilation of every coal mine and promote the health and safety of persons employed therein, the operator or agent shall employ an inside overseer, to be called mine foreman, who shall hold a mine foreman's certificate as provided in section eight, and who shall keep a careful watch over the ventilating apparatus and the air-ways, traveling ways, pumps and drainage; and shall see that as the miners advance their excavations, proper break-throughs are made, to properly ventilate the mine, and that all loose coal, slate and rock over head in the working places and along the haulways be removed or carefully secured so as to prevent danger to persons employed in such mines; and that sufficient props, caps and timbers, as nearly as possible of suitable dimensions are furnished for the places where they are to be used, and such props, caps, and timbers shall be delivered and placed at such points as the rules for the government of each respective mine provides for them to be delivered; and every workman in want of props, cap pieces and timbers, shall notify the mine foreman, or

such other person who may be designated for that purpose, at least one day in advance, giving the length and number of props or timbers and cap pieces he requires; but in case of an emergency the timbers may be ordered immediately upon the discovery of any danger; and it shall be the duty of each miner to properly prop and secure his place in order to make the same secure for him to work therein. The said mine foreman shall have the dust removed from the mine so far as practicable, and the dust which may be so removed, dampened or watered down so far as practicable, and shall have all the water drained and hauled out of the working places where the same is practicable, before the miners enter, and said working places kept dry as far as practicable while the miners are at work; it shall be the duty of the mine foreman to see that the crosscuts are made as required by law; and that the ventilation shall be conducted through said crosscuts into the rooms by means of check doors placed on the entries or other suitable places, and he shall not permit any room to be opened in advance of the ventilation current. Should the mine inspector discover any room, entry, airway or other working places being driven in advance of the air current contrary to the requirements of this act he shall order the workmen working such places to cease work at once until the law is complied with.

And the mine foreman shall measure the air current at least twice each month at the inlet and outlet and at or near the faces of the advanced headings and shall keep a record of such measurements in a book having a form prescribed by the chief of the department of mines. An anemometer shall be provided for this purpose by the operator of the mine.

And in mines in which the operations are so extensive that all the duties devolving upon the mine foreman cannot be discharged by one man, competent persons having had three years experience in a coal mine may be designated and appointed as assistants, who shall act under the mine foreman's instruction, and shall be responsible for their conduct in the discharge of their duties under such designation or employment.

On all haulways space not less than ten feet long and two feet six inches wide, between the wagon and the rib, shall be kept open at distance not exceeding one hundred feet apart, in which shelter from passing wagons may be had; it shall further be the duty of the mine foreman to have bore-holes kept not less than twelve feet in advance of the face, and, where necessary, on sides of the working places that are being driven towards and in dangerous proximity to an abandoned mine or part of mine suspected of containing inflammable gases or which is filled with water; on all haulways where hauling is done by machinery of any kind, the mine foreman shall provide for the carrying of a conspicuous light on the front and rear of every trip or train of cars when in motion in a mine, and when hoisting or lowering of men occurs before daylight in the morning or at evening after darkness, at any mine operated by shaft, the said mine foreman shall provide and maintain at the shaft mouth a light of

a stationary character sufficient to show the landing and all surrounding objects distinctly, and sufficient light of a stationary character shall be located at the bottom of the shaft so that persons coming to the bottom may clearly discern the cages and other objects closely contiguous thereto: no cages on which men are riding shall be lifted or lowered at a rate of speed greater than six hundred feet per minute; no mine cars either empty or loaded, shall be hoisted while men are being lowered or hoisted, and no cage having an unstable self dumping platform shall be used for the carrying of workmen unless the same is provided with some device by which the same may be securely locked when men are being hoisted or lowered into the mine.

At every mine where ten men are employed under ground it shall be the duty of the operator thereof to keep always on hand at the mine a properly constructed stretcher, a woolen and a watter-proof blanket, and all necessary requisites which may be advised by medical practitioner employed by the company, and if as many as one hundred and fifty men be employed, two stretchers with the necessary equipments as above advised; the mine foreman, or his assistant, shall visit and examine every working place in the mine, every alternate day while the miners of such mine are at work, and shall direct that each and every working place shall be secured by props or timbers whenever necessary, which shall be placed and used by the miners working therein as in this act provided, to the end that such working places shall be made safe, and the said mine foreman shall not permit nor shall anyone working a place known to be unsafe unless it be for the purpose of making it safe. The mine foreman shall notify the operator or agent of the mine of his inability to comply with any of the requirements of this section, and it shall then become the duty of any operator or agent to at once attend to the matter complained of by the mine foreman, so as to enable him to comply with the provisions hereof if the same can be practically done. Any operator or agent of any coal mine, or other person who shall neglect to comply with the requirements of this section shall, upon conviction, be guilty of a misdemeanor, and shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten days nor more than ninety days at the direction of the court. Any mine foreman or employe failing to comply with this section shall, upon conviction, be fined not less than five dollars, nor more than fifty dollars, or be imprisoned in the county jail not less than ten days nor more than ninety days, in the discretion of the court.

Sec. 16. The operator or agent of every coal mine shall furnish the inspector facilities for entering such mine and making examinations or obtainable information; and if any inspector shall discover that any mine does not in appliance for the safety of the persons employed therein, conform to the provisions of this act, or that by reason of any defect or practice in or at such mine the lives or health of persons employed therein are endangered, he shall im-

mediately in writing notify such operator or agent thereof, stating in such notice the particulars in which he considers such mine to be defective or dangerous, and if he deem it necessary for the protection of the lives or health of the persons employed in such mine, he shall, after giving notice of one day to the said operator or agent, in writing notify immediately the chief of the department of mines, who shall immediately examine the mine reported to be unsafe. If in fact found to be in an unsafe condition, the chief of the department of mines shall forthwith order the mine to be closed until it is placed in a safe and proper condition for mining operations; the owner or operator of any mine so closed may apply to the circuit court wherein such mine is located, or the judge thereof in vacation, by petition for an order directing said mine to be reopened, and such court or the judge thereof in vacation shall immediately hear and determine the matters arising upon such petition, and if upon hearing thereof the court or the judge thereof in vacation shall find said mine is in a reasonably safe condition, the prayer of said petition shall be granted; but notice of said hearing shall be given to the district mine inspector or the chief of the department of mines three days at the least before said hearing; and in all such hearing the attorney general shall appear for the state and defend the same.

Sec. 17. No boy under fourteen years of age, nor female persons of any age, shall be permitted to work in any coal mine, and in all cases of doubt, the parents or guardians of such boys shall furnish affidavits of their age; any operator, agent or mine foreman who shall knowingly violate the provisions of this section, or any person knowingly making a false statement as to the age of any boy under fourteen years of age applying for work in any coal mine, shall, upon conviction, be fined not less than ten nor more than five hundred dollars or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 18. No miner, workman or other persons, shall knowingly injure any shaft, lamp, instrument, air course, or brattice, or obstruct or throw open airways or carry matches or open lights in the places worked by safety lamps or disturb any part of the machinery or appliances, open a door for directing ventilation and not close it again, or enter any part of a mine against caution, or disobey any order given in carrying out any of the provisions of this act, or do any other act whereby the life or health of any person employed in the mine or the security of the mine is endangered; any person who shall violate the provisions of this section shall upon conviction, be fined not less than ten nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court; when any operator of a mine shall in any manner refuse to furnish all supplies necessary for the mine foreman to comply with the requirements of this act after being so requested so to do and by reason of such refusal loss of life or injury may result to any employe, a right of action for damages may

ensue against the operator of the mines wherein such employe has not contributed to his own injury or loss.

Sec. 19. Nor shall any person or persons, or combination of persons, by force, threats, menaces, or intimidation of any kind, prevent or attempt to prevent from working in or about any mine, any person or persons who have the lawful right to work in or about the same, and who desires so to work; but this provision shall not be so construed as to prevent any two or more persons from associating together under the name of knights of labor, or any other name they may desire, for any lawful purpose, or for using moral suasion or lawful argument to induce anyone not to work in and about any mine; any person or persons who shall violate the provisions of this section shall, upon conviction, be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten days nor more than ninety days, in the discretion of the court.

Sec. 20. Whenever by reason of any explosion or other accident in any coal mine, or the machinery connected therewith, loss of life or serious personal injury shall occur, it shall be the duty of the superintendent of the colliery, and in his absence, the mine foreman in charge of the mine, to give notice forthwith, by mail or otherwise, to the inspector of the district, stating the particulars of such accident; and if any one is killed thereby, to the coroner of the County also, or in his absence or inability to act, to any justice of the peace; and the said inspector shall, if he deem it necessary from the facts reported, immediately go to the scene of such accident and make such suggestion and render such assistance as he may deem necessary for the future safety of the men and investigate the cause of such explosion or accident, and make a record thereof which he shall preserve with the other records of his office; and to enable him to make such investigation, he shall have the power to compel the attendance of witnesses, and to administer oaths or affirmations; and the costs of such investigation shall be paid by the county in which such accident occurred, in the same manner as the costs of the coroner's inquests are now paid; if the coroner or justice shall determine to hold an inquest upon the body of any person killed, as aforesaid, he shall impanel a jury, no one whom shall be directly or indirectly interested, and the inspector of mines, or the chief of the department of mines, if present at such inquest, shall have the right to appear and testify and to offer any testimony that may be relevant and to question and cross-question any witness; and the coroner or justice shall deliver to the inspector a copy of the testimony and verdict of the jury; any operator, agent, superintendent or mine foreman who shall fail to perform the duty provided in this section shall, upon conviction, be guilty of a misdemeanor, and shall be fined not less than ten nor more than five hundred dollars or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 21. The operator or agent of every coal mine shall annually,

during the month of August, mail or deliver to the chief of the department of mines, a report for the preceding twelve months, ending with the thirty-first day of August. Such report shall state the names of the operators and officers of the mine, the quantity of coal and such information, not of a private nature, as may from time to time be required by the chief of the department of mines; blank forms of such reports shall be furnished by the chief of the department of mines. At any time any person, company or organization operating a coal mine shall transfer the ownership of any mine to another person, company or corporation, the person, company or corporation transferring such ownership shall within thirty days make a report to the chief of the department of mines of such change, and a statement of the tons of coal produced since the first of July last previous to the date of such sale or transfer of such mine; any operator or agent failing to furnish the reports as required in this section shall be guilty of a misdemeanor, and upon conviction shall be fined not less than fifty nor more than five hundred dollars, or imprisoned in the county jail not less than thirty nor more than ninety days, in the discretion of the court.

Sec. 23. Any operator, agent, superintendent or mine foreman having in charge any mine, who shall knowingly permit any person to work in any part of a mine in violation of instructions issued by the mine inspector, made in compliance with the requirements of this act, shall upon conviction be fined not less than fifty nor more than one hundred dollars for each person permitted to work in violation of such instructions, and any employe who shall work in violation of such instructions, shall upon conviction, be fined not less than ten nor more than fifty dollars.

In any mine in which a shot-firer or shot-firers are not required to be employed under the provisions of this act and in which solid shooting is done the district mine inspector is authorized to prescribe the conditions under which such solid shooting may be done.

Sec. 24. No steam locomotive shall be used in mines where men are actually employed in the extraction of coal, except by the consent of the district mine inspector, but this shall not be construed to prohibit any mine owner from operating a steam locomotive through any tunnel, haulway or part of a mine that is not in actual operation and furnishing coal; any operator or agent who violates this section shall be guilty of a misdemeanor, and upon conviction shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty nor more than ninety days in the discretion of the court.

Sec. 25. There shall be adopted by the operator of every mine in this State special rules for the government and operation of his mine or mines, covering all the work pertaining thereto in and outside of the same, which however, shall not be in conflict with the provisions of the mining laws of this State; such rules when established shall be printed on cardboard, in the English language and shall be posted up in the drum house, tippie or some other conspicu-

ous place about the mines where the same may be seen and observed by all the employes at such mines, and when said rules are so posted the same shall operate as a notice to all employes at such mine or their acceptance of the contents thereof; and it shall be the duty of each mine operator to furnish a printed copy of said rules to each of his employes when requested by either or any of them; any operator or agent who violates the provisions of this section shall be guilty of a misdemeanor, and upon conviction be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty nor more than ninety days, in the discretion of the court.

Sec. 26. In all prosecutions under this act the circuit court, criminal court and justices of the peace have concurrent jurisdiction with the right of appeal to circuit court.

Sec. 27. The provision of this act shall apply only to coal mines in which five or more persons are employed in a period of twenty-four hours; but no mine employing less than ten men shall be required to employ a mine foreman.

All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

FEATURES OF THE MINE LAW. 1907.

- 1 Department of Mines in charge of Chief of Department of Mines, formerly Chief Mine Inspector. See Section 1.
- 2 District Mine Inspectors appointed by the Chief of Department of Mines. See Section 2.
- 3 Inspection districts increased to twelve. See Section 4.
- 4 (a) Operators to furnish map of mine on a scale of 100 or 200 feet to the inch. See Section 5.
(b) Direction of air current to be indicated on map by arrows. See Section 5.
(c) Plans of all new development to be furnished the District Inspector previous to making the development. See Section 7.
(d) Department may have survey of mine made if maps are not furnished, or if map so furnished is believed to be inaccurate. See Section 6.
(e) Operators to pay costs if original map is inaccurate. See Section 6.
- 5 (a) After August 22, 1907, the mine foreman shall instruct each person employed within the mine as to the particular danger of his work and furnish him a copy of the mine law and rules of the mine. See Section 8.
(b) Every inexperienced person employed shall work under the personal direction of the mine foreman or other experienced mine worker. See Section 8.
(c) Two openings required at all mines each to be available to

- travel of men. Not over twenty persons allowed to work in any mine having but one opening. See Section 8.
- 6 (a) Metal speaking tube from top to bottom of shaft. Other means of signalling required. Safety catches and hoods on cages. Safety gates at top of shaft. Adequate brake on hoisting drum. See Section 9.
- (b) Hoisting machinery to be inspected once each day. See Section 9.
- (c) Traveling way around bottom of shaft required. See Section 9.
- 7 (a) Sober engineers to be in charge of hoisting machinery. See Section 10.
- (b) No more than ten persons shall ride on any cage or car at one time. No person allowed to ride on loaded car or cage in any shaft or slope. See Section 10.
- (c) Slopes, haulways and motor roads used for travel shall be made sufficiently wide for persons to pass moving cars in safety. See Section 10.
- (d) Or refuge holes, kept whitewashed, shall be made on one side not over 60 feet apart. See Section 10.
- (e) No person shall travel on slope, engine plane or motor roads when other roads for travel are provided. See Section 10.
- 8 (a) Ventilation.—In non-gaseous mines 100 cubic feet of air per minute for each employe required, or as much more as may be required by the District Inspector. Air shall be conducted to face of all workings. See Section 11.
- (b) Break-throughs shall be not over 80 feet apart in headings and rooms in the same pillar. See Section 11.
- (c) Stoppings to be constructed and made of material approved by the Inspector. See Section 11.
- (d) After August 22, 1907, the air current shall be split so as to not allow over 60 persons to be in the same current. Cases where 80 persons may be permitted in the same current. See Section 11.
- (e) No person allowed to work where the air current is less than 100 cubic feet of air per minute. See Section 11.
- (f) Dust in all mines shall be prevented from accumulating and mine kept watered down. See Section 11.
- (g) Powder to be taken into mines in five pound metallic cans. Quantity of explosives limited. See Section 11.
- 9 (a) In gaseous mines,—Minimum ventilation 150 cubic feet per minute for each person or as much more as the Inspector may direct. See Section 12.
- (b) Stoppings to be made of material approved by the Inspector.. Doors to be avoided. Overcasts made of incombustible material. See Section 12.
- (c) Safeguards to be used in worked out or abandoned parts of the

- mine. Prevent overflow of standing gas. Unlawful for any unauthorized person to enter such parts. See Section 12.
- (d) Twenty minutes shall elapse after shot before miner shall re-enter working place. See Section 12.
 - (e) Workmen shall be withdrawn from mine when ventilation is disturbed. See Section 12.
- 10 (a) In gaseous mines the ventilation to be produced by a fan, which shall be run day and night. See Section 13.
- (b) Fire Boss to be employed. Shall understand gases and their detection. Shall understand ventilation. Three years' experience in gaseous mines; his duties. See Section 13.
 - (c) Danger signal to be displayed outside of mine. Shall begin examination within three hours before each shift enters mine. Evidence to be left in working places. Shall make written report in book. See Section 13.
 - (d) Unlawful to enter mine until signal has been displayed. See Section 13.
- 11 (a) Safety lamps to be used exclusively in gaseous mines, except by permission of Inspector. See Section 14.
- (b) Safety lamps to be in charge of a special person. See Section 14.
 - (c) At all mines two safety lamps shall be kept. See Section 14.
- 12 (a) Mine foreman;—his duties,—Shall have had five years' experience in coal mines. See Section 15.
- (b) Shall keep careful watch over ventilation; attend to break-throughs; loose top; furnish props and timbers. Employes to notify mine foreman when in need of props. Miners shall prop the roof. Water to be removed from the mine. See Section 15.
 - (c) Cross-cuts to be driven. See Section 15.
 - (d) Check doors to be used to ventilate room. See Section 15.
 - (e) No room to be turned off ahead of the ventilating current. See Section 15.
 - (f) Inspectors may stop men from working. See Section 15.
 - (g) Air current to be measured by the mine foreman twice each month and recorded in a book. See Section 15.
 - (h) Anemometer to be provided by the operator. See Section 15.
- 13 (a) Assistant mine foreman shall have had three years' experience in coal mines. See Section 15.
- (b) Space on haulways to be made ten feet long by 30 inches wide every one hundred feet. See Section 15.
 - (c) Bore holes to be kept in advance. See Section 15.
 - (d) Signal light to be carried on each end of trips of cars. See Section 15.
 - (e) Stationery light to be maintained at top and bottom of shaft. See Section 15.

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- (f) Cages carrying men not to be lowered or hoisted at a speed greater than 600 feet per minute. See Section 15.
 - (g) Mine cars, neither empty nor loaded, shall not be hoisted while men are being lowered or hoisted. See Section 15.
 - (h) Cage having unstable platform not to be used for carrying men unless provided with device for locking same. See Section 15.
- 14 Stretchers to be kept on hand. See Section 15.
- 15 (a) Mine foreman or his assistant to visit and examine every working place every alternate day. See Section 15.
- (b) Shall not permit any one to work in unsafe place; exception. See Section 15.
 - (c) Props or timbers to be placed by miners. See Section 15.
 - (d) Mine foreman to notify operator of his inability to comply with requirements of this section. Duty of operator or agent. See Section 15.
- 16 (a) Operator to furnish inspector facilities for entering and examining mine. See Section 16.
- (b) Duty of Inspector when mine is in unsafe condition. Notify operator and Chief of Department of Mines. See Section 16.
 - (c) Chief of Department of Mines to examine mine and if he considers it unsafe has authority to close it. See Section 16.
 - (d) Owner or operator may apply to Circuit Court, or judge thereof in vacation, for order directing mine to be re-opened. See Section 16.
 - (e) Court, or judge thereof in vacation, to immediately hear and determine matters. See Section 16.
 - (f) Notice of hearing, three days at least, to be given District Mine Inspector or Chief of Department of Mines. See Section 16.
 - (g) Attorney General to represent the State. See Section 16.
- 17 (a) Boys under fourteen years of age and female persons not to be employed in mines. See Section 17.
- (b) Affidavits to be furnished by parents or guardian of age in all cases of doubt. See Section 17.
- 18 (a) Employes not to do any act that endangers life or property. See Section 18.
- (b) Employes not to disobey orders given in compliance with law. See Section 18.
- 19 Operators to furnish mine foreman all necessary supplies; right of action for damages. See Section 18.
- 20 Intimidation of employes prohibited. See Section 19.
- 21 (a) Explosions or other accidents:—Duty of superintendent or mine foreman; notify Inspector, and in case any one is killed thereby, notify coroner or justice of the peace also. See Section 20.
- (b) Inspector's powers and duties in case of explosion or other accident. See Section 20.

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- (c) Coroner's duty to Inspector. See Section 20.
- 22 (a) Operators to make annual report during month of July to Chief of Department of Mines. See Section 21.
- (b) Any person, company or corporation transferring ownership of a coal mine shall report such transfer to Chief of Department of Mines within 30 days. Statement of tons of coal produced since first of July, last, previous to sale or transfer of such mine or mines. See Section 21.
- 23 Penalty for permitting persons to work, and for employes working, in any part of a mine in violation of instructions of Mine Inspector. See Section 22.
- 24 Solid shooting;—the District Mine Inspector to prescribe conditions under which such solid shooting may be done. See Section 23.
- 25 Steam locomotives not to be used in mines; exception. See Section 24.
- 26 (a) Rules to be adopted by operator for government and operation of mine or mines. See Section 25.
- (b) Printed on card-board in languages spoken by ten or more employes. See Section 25.
- (c) Post in drum house, tippie or some other conspicuous place. See Section 25.
- (d) Copy to be furnished each employe. See Section 25.
- (e) See Section 15 in reference to timber in mines.
- 27 (a) Courts having concurrent jurisdiction. See Section 26.
- (b) Right of appeal. See Section 26.
- 28 (a) Mine Law applies to coal mines in which five or more persons are employed. See Section 27.
- (b) Mine foreman not required unless ten or more persons are employed. See Section 27.

OPINION OF ATTORNEY GENERAL.

Charleston, W. Va., March 30th, 1909.

MR. WILLIAM G. CONLEY,
Attorney General.

Charleston, W. Va.

Dear Sir:—The Department receives a great many inquiries, as to whether or not, under the Mining Law of this State a foreigner who has just taken out his first citizen papers, but who has not been here a sufficient length of time to secure his second papers is eligible to be placed in our mines as Mine Foreman or Fire Boss.

My interpretation of the Law is, that whenever a man takes out his first papers, he is entitled to all the rights of the American citizen, except voting, and in answering these inquiries my instructions to mine operators has been, that any man as above stated who has secured his

first papers can be placed in charge of any of our mines, and be in accordance with Law.

Please advise whether my interpretation is correct. Thanking you in advance for this courtesy, I am.

Very truly,

JOHN LAING,

Chief of Department of Mines.

State of West Virginia, Office of Attorney General.
Charleston, April 14, 1909.

MR. JOHN LAING,

Chief of Department of Mines,

Charleston, West Virginia.

Dear Sir:—I have before me your letter of the 30th ult., wherein you say:

"This Department receives a great many inquiries, as to whether or not under the Mining Law of this State a foreigner who has just taken out his first citizen papers, but who has not been here a sufficient length of time to secure his second papers is eligible to be placed in our mines as Mine foreman or Fire boss.

My interpretation of the Law is, that whenever a man takes out his first papers he is entitled to all the rights of the American citizen, except of voting, and in answering these inquiries my instructions to mine operators has been, that any man as above state who has secured his first papers can be placed in charge of any of our mines, and be in accordance with law.

Please advise whether my interpretation is correct. Thanking you in advance for this courtesy, I am."

I do not believe that the law of this state, relative to the question submitted, will bear the liberal construction you have been placing upon it. It is true a foreigner residing in this state whether he had or had not declared his intention of becoming a citizen would be entitled to many rights and privileges. He would be entitled to the protection of the laws, could own, hold and transfer property; could contract and be contracted with; could sue and be sued, etc.; but he could not vote. Nor would he be eligible to become a mine foreman or fire boss in the mines of this state, and, for the simple reason, that the statute expressly so provides. Section 13 of chapter 78, Acts of the Legislature, 1907, relative to the employment of a fire boss provides:

"It shall be the duty of every mine owner or operator in this state whose mines are known to generate fire damp or other dangerous gas or gases in dangerous quantities to engage a fire "boss" or "bosses" where necessary, who shall be a citizen or citizens of this state," etc.

And section 15 of said chapter, relative to a mine foreman, provides:

"In order to better secure a proper ventilation of every coal mine and promote the health and the safety of persons employed therein, the operator or agent shall employ a competent and practical inside

overseer, to be called a mine foreman, who shall be a citizen of this state," etc.

I consider that these provisions are mandatory and must be strictly followed; that only citizens of this state are eligible to said appointments, citizens, however, within the civil and not within the political meaning; for the latter, though born or naturalized in the United States are not citizens of West Virginia until they shall have resided one year within the state.

The West Virginia Constitution provides as to what shall constitute citizenship within the state and who shall be citizens of the state, section 3 of article 2, providing:

"All citizens residing in this state, born or naturalized in the United States, and subject to the jurisdiction thereof shall be citizens of this state."

According to this provision, a foreigner residing in West Virginia, before he can become a citizen of the state, must be naturalized, as provided by the Acts of Congress governing naturalization of aliens. He is not admitted to citizenship until the proceeding relative to his naturalization has been completed, and as stated by the Supreme Court of this State in the case of *Dryden v. Swinburne*, 20 W. Va., 90:

"The law requires, that an alien should be naturalized in a court of record and his admission to citizenship must be by a judgment of such court."

It is well settled that:

"A declaration or intention to become a citizen does not make the alien a citizen. An alien remains such until naturalization is completed." 2 Cyc 117, citing many cases.

But when an alien has been naturalized and locates in this state, with the intent of becoming a citizen, he is instantly within the civil meaning, a citizen, but within the political meaning, not until he shall have resided in the state one year.

One of the cases cited in 2 Cyc referred to, in *Minneapolis v. Reum*, 56 Fed. 576, wherein it was held:

"That a foreign-born resident of the United States who has merely declared his intention to become a citizen, but has never complied with any other provision of the naturalization laws, is none the less an alien, because of the fact that the Constitutional laws of the state have conferred the elective franchise and other privileges of citizenship on foreign subjects who have declared their intention to be naturalized," etc.

The exact question submitted has not been passed upon by the Supreme Court of this state or of Virginia, prior to the separation of West Virginia; but as early as 1815, the Virginia Supreme Court construed

the Act of the General Assembly of Virginia, passed in 1809, on the question of citizenship in connection with the right to serve as a grand juror. The act of Virginia in question was as follows:

"Be it enacted by the General Assembly, that the sheriff of each county, where a circuit court is appointed to be holden, shall, before every meeting of such court, summon twenty-four of the most discreet freeholders of the county, being citizens of this Commonwealth," etc.

Under this provision of the Virginia statute the Supreme Court held that an alien could not serve as a grand juror, the court saying:

"When a bill of indictment is found by a grand jury, one of whom is an alien, or otherwise disqualified by law, the bill on presentment may be avoided by a plea."

The court further said:

"The court doth decide by unanimous opinion of the judges present that Edward Slater in the record of said proceedings mentioned was not a good and lawful grand juror, and the said presentment is not a good one" Com. v. Cherry, 2nd Va. Cases 20.

The provision as to citizenship relative to grand jurors is omitted from the enactment of West Virginia; but in section 1 of chapter 116, the W. Va. Code, relative to juries, provides:

"All male persons who are twenty-one years of age, and not over sixty, and who are citizens of the state, shall be liable to serve as jurors," etc.

This section, as involving the question of citizenship, has never been construed by the Supreme Court of this state; but if the question of citizenship in this connection should ever be raised, I am of the opinion that the Court of this state would hold as the Virginia Court did in the case mentioned, that an alien could not serve as a juror.

The very question presented, however, has been passed upon by the Courts of Pennsylvania under the mining laws of that State requiring "fire bosses" to be citizens of the State. The mine law of Pennsylvania in question provides:

"Applicants for mine foremen or fire boss certificates shall be at least twenty-three years of age, and shall have had at least five years practical experience, after fifteen years of age, as mine superintendent at or inside of the bituminous mines of Pennsylvania, and shall be citizens of this commonwealth and men of good moral character and of known temperate habits." Section 300 Pennsylvania Mine Laws.

Under this provision of the Pennsylvania Mine Law the courts held:

"An unnaturalized foreigner is not qualified under the Pennsylvania bituminous coal mining act for the position of fire boss, notwithstanding he has declared his intention to become a citizen." Examining Board's Authority, 3 Pa. Dist. Rep. 840; 1st Lack. L. News, 49 15 Pa. Co. Ct. Rep. 585.

In conclusion, I will say that I am of the opinion that, under the laws of this state, only citizens of the State of West Virginia, who are such as defined by the Constitution of the State, are eligible to and can serve in the positions of mine foremen and fire bosses, as provided in the mining laws of the State.

Yours truly,

WM. G. CONLEY,
Attorney General.

By D. E. MATTHEWS,
Assistant.

MINE EXPLOSIONS—REPORT OF EXPLOSIONS.

ECHO MINE.

Beury, W. Va., March 31st, 1909.

The mine is located at Beury, W. Va., on the main line of the C. & O. Railway, and two miles west of Thurmond, W. Va. It is opened in the Fire Creek seam and is operated by the Beury Brothers Coal & Coke Company.

At 1:30 P. M. March 31st an explosion occurred in this mine which caused the death of Sam Melhorn, Andrew Melhorn, John Blumefield, William Smith, Charles Jones and Andy Sydenstricker.

The last of these men Andy Sydenstricker, was brought out of the mine alive, at 1 P. M. of April 1st, having been in the mine for twenty-four hours after the explosion, and although he was given the very best of care and attention, he died on the Monday morning following, April 5th, from the effects of the poisonous after damp.

I went to this mine on the evening of March 31st, assisted in the rescue work and left there on April 1st, at 2:30 P. M., after all of the bodies had been brought out of the mine leaving Special Inspectors Combs and Raisbeck in charge.

From all the indications shown, and information it was possible to gather, it was determined that the explosion originated in the 4th Right off Carter's entry, known as "Jones Place." It seems that about eighty feet from the face of Jones place a piece of slate 20 feet wide, 30 feet long and 12 inches thick, had fallen a few days before, and Jones together with J. E. Miller had been working at this slate to remove it. They had fired three or four shots of dynamite on the rock, beginning with three sticks and increasing the charge until six sticks were used. Miller testified that they left ten sticks of dynamite in the mine, then they were idle for a week, and Jones, on the morning of March 31st, after getting eight more sticks of dynamite went into the mine by himself. After the explosion, three sticks of dynamite were found in a sack in Jones place, so that he used that day fifteen sticks of dynamite, and the probabilities are that he used all or most of it in the blast which caused the explosion.

The mine is generally damp except in one or two places which were referred by District Inspector J. A. Straughan, in the report of his inspection made March 3rd, 1909.

Notices of the Mining Department and the Instructions of the District Inspector in regard to the proper use of explosives, were posted at the pitmouth, but they seem to have been almost absolutely ignored, and the law flagrantly violated, in as much as several kegs of powder, some of them one-half to three-fourths full were found. And to this indifference to the instructions of the Department must this explosion, with its attendant loss of life, be attributed.

Attached herewith please find copy of a letter dated March 15th, 1909, from Mr. J. A. Straughan, District Mine Inspector to Mr. H. B. Beury, Supt. of Beury Bros. C. & C. Co., in regard to the use of explosives. Also attached please find copy of verdict of Coroner's jury.

LICK BRANCH MINE EXPLOSION.

Decembe 29 1908.

The Lick Branch mine is located in McDowell County on the main line of the Norfolk & Western Railroad, it is a drift mine opening on a small branch of Elkhorn River called Turkey Gap Branch, and is about midway between Bluefield and Welch.

This mine is owned by the Pocahontas Consolidated Collieries Company, with principal offices at Bramwell, West Virginia, Mr. Isaac Mann, of Bramwell is President, James Ellwood Jones, of Switchback, General Manager, Geo. E. Atkinson, General Inside Superintendent, and Cleve Bowers, Mine Foreman.

This mine is developed by two main headings running parallel to each other and about 2000 ft. apart. The left of New Main Entry is worked on the double entry system, and the Old Main or Turkey Gap entries are worked on the double entry system until they break through to Tug River, then they are worked on the three entry system all of which are shown on the accompanying map. The mine has a producing capacity of 3000 tons daily, but on account of the general depression of business only 800 to 1000 tons daily were being mined.

The last inspection of the mine, made by this Department previous to the explosion of December 29th, is a matter of record and is presented in the evidence of the inquest and reads as follows:

Ventilation	<i>Good.</i>
Drainage	<i>O. K.</i>
Timbering	<i>O. K.</i>
Machinery	<i>O. K.</i>
Gases	<i>None.</i>
Oil used	<i>O. K.</i>
General Safety	<i>O. K.</i>
Recommendations	<i>None.</i>

The coal mined here is the number three Pocahontas seam, and has an average thickness of $8\frac{1}{2}$ feet of clean coal (a very remarkable feature of the seam). In addition to this it has a most excellent roof, practically no props or timber being used in this mine, other than for mine ties; The mine is perfectly free of explosive gas of any kind and is worked throughout with open lights, it is ventilated by a 28 foot Homemade fan and is operated by a 100 Horse Power General Electric Generator, this gives a producing capacity of approximately 100,000 cubic feet of air per minute with a three inch water gauge; but it has a capacity of a much greater producing quantity of air needed.

The air is conducted into the mine in two splits, one intake being at the new main entry of left mine, the other intake being at what is known as Tug River opening.

The air taken into the New Main is conducted through all the left hand workings of said mine, then up to the face of the New Main entry, and back to the third right, and connects with number ten entry from the old main and there joins with the current taken from the Tug River side.

The air from the right hand workings is taken in at the Tug River openings, and conducted up all of the right hand workings of the old mine, distributed through the face and back through all of these workings, and connects with a current from the New Main at the heading of number ten entry, both currents flow back from that point to No. 9 and No. 8 entries, and return down the old main air course to fan.

The stoppings used in this mine are walls built of slate and rock about 8 ft. thick, and on the entry side are neatly trimmed and laid in mortar of sand and cement; this makes a very good system of brattices, and very little air is lost in transit.

The mine is equipped throughout with electricity and Electric machinery of all kinds, such as Mining Machines, coal loaders, Gathering Locomotives, etc., and is in many respects a very up to date mine.

The coal is delivered to the tippie by a tram road about one mile from the drift mouth. The tippie has a storage capacity of 500 tons of R. O. M. coal, and an adjoining bin with an equal capacity for slack coal which is used in the coke ovens, there are 192 ovens at this plant all of which were in blast at time of accident, and which produced a very superior quality of coke.

The coal is mined here both by machine and pick method, and the miner is paid by the car instead of the tonnage basis.

At 4 P. M. of December 29th a message reached this office from the District Mine Inspector D. R. Phillips stating there had been an explosion at Lick Branch mine, and that fifty lives had been lost. I had at that time Deputies Warner, Henry and Grady all working in the eleventh District, who went at once to the scene of the explosion and began to assist in the work of rescue under the direction of D. R. Phillips, who is in charge of that District, and they are to be congratulated, both for judgment ability and bravery, they did, to say the least,

heroic work and well, and by 7 o'clock P. M. of the 31st they had explored the entire mine and recovered a total of 49 bodies, one colored man being overlooked and was picked up next day by our party while making the final examination of the mine, in an endeavor to locate the point of origin of explosion and in this connection will only add that any points of origin that may be named by myself or any of the Deputies as the initial point will only be conjective and must not be considered as final proof, for in my judgment there were so many places that could have been the point of origin, that I would not attempt to specify any particular place.

The conditions as we found them were simply these. "The miners seemed to be getting all the cars they could load it being the holiday season and many of the men were not at work, and those who were in the mine were no doubt trying to get out as much coal as possible, and in their endeavor to do this were taking advantage of the situation and using every possible means at their command to produce coal. As proof of this in 75 % of the working places in the mine, we found where both machine and pick miners had been shooting coal from the solid; although this was a strict violation of instructions from the District Mine Inspector, also of the regular mine rules posted at the mine. And it was proven at the Coroner's inquest that the Management had used every effort to stop this; But with a condition of this kind, when the height of coal is considered, and the number of tons than can be shot from the solid, particularly with experienced miners, I believe it is impossible to stop solid shooting; for some men rather than mine their coal, will drill their holes charge them with powder, then wait for an opportunity when the officials are busy in another part of the mine to go in and shoot them; thereby keeping the air in the mine continually pregnant with an explosive mixture of gases. This mixture is always at such a temperature that a blown out shot or a hole charged with too large a quantity of powder, would at once cause an explosion; especially in such a mine as this.

After we, with a party of experts had gone over the mine and failed to locate any particular point of origin I left Deputies D. R. Phillips and P. A. Grady at the mine and instructed them to go over it carefully and see if they could find, or determine any supposed true origin of the cause of said explosion and I attach herewith their reports.

While I agree with them that room No. 7 off second right entry "B" suggests itself very much as the point of origin, yet there were several other places that could have been the point of origin, and are just as suggestive. So long as men are permitted to do promiscuous shooting in this manner we may always expect explosions of this kind. In my judgment such practice is courting such catastrophes. As the cause of the explosion is defined in report of both Phillips and Grady, I shall not here repeat; as their report is in a large measure in harmony with my own.

There is no doubt in my mind as to the principal cause of this ex-

plosion, which briefly is as follows: By careful inquiry I learned that a general practice in these mines, is for the miners to take a large quantity of dynamite in their powder flask under the pretense of it being powder, they also conceal fuse and dynamite caps on their person, and it is impossible for any foreman, however strict, to keep in touch with practices of this kind, as these are the most dangerous explosives. It matters not how well a mine is ventilated, or how perfectly the conditions are, so long as men are permitted to do their own shooting, these catastrophies can be expected at any time, and at any season of the year in any mine. This explosion is only one of the many we will have throughout the state unless this Department be given absolute authority to demand that men thoroughly familiar with explosives be placed in all mines of a dangerous character to be known as "Shot firers," and that all shooting must be done at times between shifts, when all the workmen are out of the mine except the "Shot firers."

I mention this method of shooting to bring to your attention the utter disregard that both experienced and inexperienced miners have for the orders of this Department and also for the rules as posted for the government and protection of all employers inside of a coal mine, the strength of a chain is its weakest link, so is every man's life who enters a mine under the conditions referred to, is at the mercy of the most reckless miner. Many operators of this state are pursuing the policy today of using shot firers, both for the protection of life and property, and in addition they are getting in return a much better preparation of coal. There is nothing to be lost either to the operators or miner by a system of this kind, but everything to be gained by each.

I enclose you herewith copy of testimony as given before Coroners inquest held at Switchback on Saturday, January 2nd, 1909. You will notice that none of the Mine Inspectors testified before this body, the reason for this was that we had not at that time determined any particular cause for the explosion, and any evidence that they might have given would have been theoretical rather than practical.

I have been asked by the Mine Investigating Committee to submit to that body what recommendations I could suggest to improve our mining conditions. There are many minor suggestions that I may take up, but the principal suggestions that I have to make are as follows:

- 1st. The Employment of "Shot Firers."

- 2nd. That all men in charge of the mines shall have a certificate of competency from the state before being permitted to hold such a position; by being drilled into the many dangers surrounding their calling, it will have much influence in carrying out the instructions of this Department. As it is now nine-tenths of the Mine Foremen throughout the state seem to think they are being paid to deceive the Mine Inspector and will if they hear of his presence (the Mine Inspec-

tor) being in the District, work all night to remedy conditions in the mine to have the Inspector report favorably. Then just as soon as the Inspector leaves will pay no attention whatever to the safety of the mine, nor to any instructions the Mine Inspector may have given him and at the same time will report to the Manager that the mine is O. K. By forcing examinations of this kind referred to, the state will secure a much more intelligent class of Foremen and will go far towards preventing mine accidents of all kinds.

In conclusion with reference to the Lick Branch mine and what is being done for its future safety, I will add, that this Company is installing a 4 inch water main throughout all of its principal headings and leading from this will be a 2 inch pipe into all rooms and chambers. A large tank on the hill will supply the water to this pipe and give a sixty pound pressure. By this system all dust and dry places will be thoroughly wetted and dampened; which will add very much to the safety of the mine, but will by no means make it safe unless other precautions are taken in a like manner.

As all names of the victims and etc., are contained in the evidence there is nothing further to be said. It might be of interest to know that this explosion was of a local nature and was confined principally to that part of the mine known as "Italy," which is composed of Dip A-1 entry, Dip B-1 entry, Dip B. entry, Old Main Entry 12 Cross entry, 11-2 entry and No. 11 Entry, all men who were in this part of the mine at the time of the explosion were killed; but the men escaped from all other parts of the mine practically unharmed after the explosion.

A very fortunate part of this catastrophe was that the fan was equipped with four large relief doors, and when the explosion occurred these doors flew open thereby taking practically all force from the fan consequently the fan never stopped running, and just as soon as a few brattices could be put up the air was at once put in motion around the mine and the work of rescue began by Deputies Phillips, Warner, Henry and Grady, who arrived at the mine 2 1-2 hours after the explosion. I herewith attach the report of the District Inspectors, Mr. D. R. Phillips, Mr. P. A. Grady and Mr. Earl A. Henry. Also a map showing the location of the bodies as found after the explosion.

Respectfully submitted

JOHN LAING,

Chief of Dept. of Mines.

January 23rd, 1909.

The following is a copy of inquisition held relative to the explosion:

State of West Virginia, McDowell County, To-wit:

An inquisition taken at Switchback, W. Va., in the County of McDowell, on the 2nd day of January 1909, before C. W. White, Justice of said County upon a view of the bodies of:

Domnich Rose,
 Thomas Howell,
 Peter Poles
 John Hicks,
 Thomas Swain,
 Kemp Danders,
 Mathew Webber
 Luna Naumuk,
 Jim Smith,
 John W. Miller,
 John Brown,
 George Parvolic,
 David Bolin.
 Reed Abderson,
 Tony Palmara
 Joe Edmunds,
 Green Davis
 Aseny Parvolic,
 Cleve Alexander,
 Buck Williams
 Gregory Boresky,
 Pleas Cannaday,
 Samuel Beatty,
 Pinus Buschuke,

Zeff Estes,
 Thos. Blevins.
 Robert Williams,
 John A. Holland,
 Walter Reynolds,
 Joe Lockett,
 Joe Nizuk
 Richard Lockett,
 Charles Little
 Wiley Little,
 J. E. Johnson,
 Elzy Blevins,
 George Meaket,
 J. W. Edmondson,
 John W. Partin,
 James Calloway,
 (Known as Holland),
 Scott Page.
 Jim Roan.
 Karl Tarrachuk,
 Tobe Webber,
 Jim Lockett
 Trofin Harasmuk,
 Nicolay Buschuke

Ab. Holland.

And also upon the bodies of two unknown there lying dead.

The jurors sworn to inquire when, how and by what means said persons came to their death, upon their oath do say:

We find that the persons known, and unknown aforesaid came to their death by an explosion in the Lick Branch Coal mine, near Switchback, in the County of McDowell, State of West Virginia, happening on Tuesday, the 29th day of December, 1908, in the afternoon thereof, and from causes unknown to your jurors.

We further find from the investigation that no blame for the deaths of the above persons can be attached in any sense to the Pocahontas Consolidated Collieries Company, Incorporated, or any of the officers of said Company.

In testimony whereof the said Justice and Jurors hereto set their hands.

(Signed) C. W. WHITE, J. P.

" E. D. CREASY, Juror.

" WM. BAILEY, "

" W. H. JACKSON, "

" J. L. WOOD, "

" LUTHER VERNON"

" S. J. PETERS, "

POCAHONTAS CONSOLIDATED

COLLIERIES CO. INC.

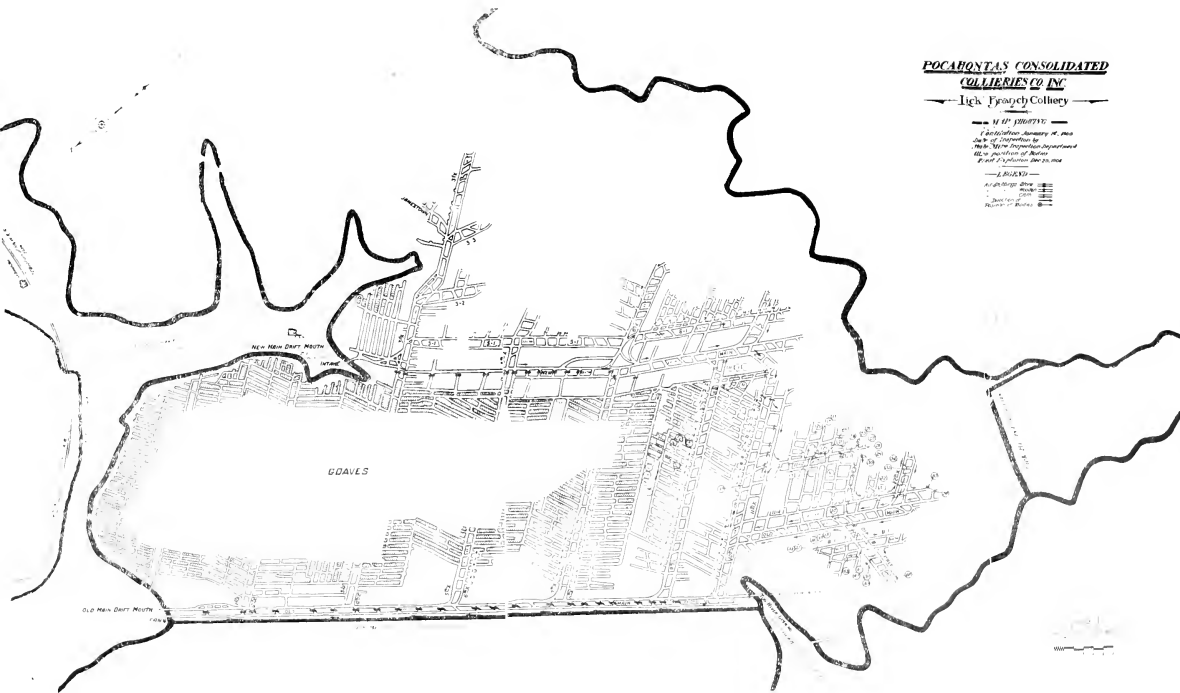
High Branch Colliery

11 1/2' PROPERTY

1. Section Survey of 11 1/2'
 2. Date of Survey for
 3. High Branch Colliery
 4. Section of 11 1/2' Survey
 5. Date of Survey Dec 25, 1904

1. ROAD

2. 11 1/2' DRIVE
 3. ROAD
 4. DRIVE
 5. Section of Road



FIRST EXPLOSION.

REPORT ON LICK BRANCH MINE EXPLOSION.

HON. JOHN LAING.

Chief of the Department of Mines.

Dear Sir:—In compliance with your instructions of January 2nd, 1909, that myself and Inspector P. A. Grady make a thorough investigation of the Lick Branch Mine, with a view of ascertaining, if possible, the cause of the disastrous explosion which occurred therein about 2:30 P. M., December 29th, 1908, whereby 50 persons lost their lives, we beg to submit the following report:

A superficial examination of the mine, made January 1st, 1909, by yourself, accompanied by Inspectors Earl Henry, Wm. Warner, P. A. Grady, D. R. Phillips and several officials of the Company, developed the fact that the explosion was confined to the Eleven 1, Eleven 2, No. 12, and the Dip Entries, the forces exhausting in the No. 9 Entry Pillars in one direction and through the Tug River Opening, and down the Old Main Entries in the other.

We began our investigation January 4th, 1909, and concluded it in the evening of January 5th, 1909. We first visited the dip workings, which consist of the Main Dip B Entries and the Dip A-1 and Dip B-1 Entries, which turn off to the right and left respectively from the Dip B Entry. We travelled from there to the Old Main Entry, No. 12, Eleven 1, and Eleven 2 Entries in the order named, returning again to the Dip workings for further investigation.

At the Junction of the Dip B Entry with the Main, we found a heavy switch tie moved outward about four feet at one end, and an examination of the sides showed that the forces had traveled outward. This was more or less plain along this entry to the intersection of the Dip A-1 Entry. We continued down this entry to the face, in the last room of which, we discovered such conditions as led us to the conclusion that this might have been the place in which the initial explosion had taken place. In order to make clear to you the manner in which we arrived at this conclusion, it is necessary to explain the method of driving the entry and Aircourse at this point, which method was entirely different to that employed elsewhere throughout the mine, and one which is certainly not to be commended in any mine.

The Rooms were turned to the left off the 1st Entry, which should have been the Air Course, according to general practice.

The Aircourse was maintained by driving a line of Break-throughs from one Room to the other, and in line with each other. This system necessitated the use of either doors or Brattice Cloth on each Room. There are four rooms driven on 120 ft. centers. The last room is driven several feet beyond the Break-through or so-called Aircourse. The first cut was being made directly in front of the Aircourse, as if to continue the same towards the next room. A shot had

been fired in the left side of this cut, the hole pointing directly into the Aircourse.

The shot was on the solid and had simply cracked the coal from the hole downward, and was undoubtedly a windy shot, blowing out into the Aircourse. On the nearest corner opposite the hole, charred dust was deposited, and about 20 or 25 feet outward in the Aircourse the ribs from floor to roof were blistered and coked, as if subjected to such heat as might be generated by the explosion of a keg of powder. In no other part of the mine did we find any indication of great heat on the ribs near the floor.

The Room neck and Entry showed indications of their having been considerable heat and force. Charred dust was deposited in the off-sets, and the projections of the ribs were worn off on the inby side. Traveling out along the Entry and Air Course, the evidence of the force having gone in that direction, increases. At the intersection of the Aircourse with the Dip B Entry, against the rib, we found the remains of a dinner pail and powder keg. A careful examination of the torn sheet of the keg disclosed the fact of its being a new keg, and that it had been ruptured by an internal explosion. This was in the direct path of the force coming out of the Aircourse of Dip A-1. Several kegs were found throughout the mine, some whole and some battered, but a careful examination of the latter, proved them to be old, and none were burst open by internal force.

A careful examination of each of the Rooms on the Dip A-1 Entry, disclosed more or less heat extending toward but not quite reaching the faces.

Following the Main Dip B Entries to the face very little evidence of heat was visible, but a heavy deposit of soot covered every exposed part. In the last Break-through there had been considerable heat, as indicated by the coked coal on the ribs.

The Left or Dip B-1 Entries showed indications of heat in each break-through, and for some distance on either side. The force traveled out from these two Entries to the Old Main Entry. At the intersection with the Main Entry is a sidetrack. An empty car had been standing at the mouth of the Dip B. Aircourse. The car was hurled by the force across the loaded track to the opposite rib. The force divided at this point, a portion going out through the Old Main Entry to be exhausted in the Old Main workings, and out the Tug River opening, the other turning, going up towards the face of the Main Entry and derailing three empty cars in its progress, on the sidetrack just mentioned, one of which had the side blown out.

The force was greatly diminished from this point to the face. The soot deposit was very heavy in the right-hand Aircourse.

A considerable increase of force was noticeable in the lower end of No. 12 Entry and Aircourse. This was due probably to the fact that these entries were dry and might have had a heavy deposit of fine dust on the ribs at the moment of the explosion. There was no

indication of there having been any flame at the face of the No. 12 Entry. On the bumper of a car at the face, there was found two 5 lb. powder flasks full of powder, and a roll of cartridge paper. These had been placed there by the miner preparatory to making a cartridge.

Rooms No. 15 and 16 on eleven 1 entry showed the effect of some heat on the ribs.

At the foot of No. 13 room, which is the connection between Eleven-1 and Eleven-2 Entries the projections are considerably worn on the in-by exposures, indicating that the force had increased here owing to the contracted area at this point.

The force divided here, part going down Eleven-1 Entry toward No. 9 and the Old Main Entries, the other going up No. 13 Room.

At the head of 13 room the Aircourse of Eleven-2 Entry had been headed through to 13 Room and was driven about sixty feet with the entry. A car in this place had both ends torn out in opposite directions, showing that a reactionary force had operated here. In one or two other places, there was some indications of reactionary force, but this is perhaps the best example. The track was torn up for some distance here. A heavy deposit of soot was deposited from Room 13 connection to the face of Eleven-2 Entry.

The rooms on this entry show more or less evidence of flame having passed through the break-throughs.

The greatest force in this Entry is in evidence near the Junction of the Entry with No. 11 Entry, and from this point outward it diminishes, becoming spent in the pillar workings of No. 9 Entry, where there is no indication of flame.

In our investigation of the mine, we found that in several instances, Entries and Rooms had been driven beyond the distances permitted by law between break-throughs, and while we do not believe that this had any bearing or effect upon the explosion it does show a disposition to neglect upon the part of the official upon whom this duty devolved. At the last visit of the District Mine Inspector no such violations of the law were noted or found.

We also found that there had been shooting upon the solid in several places, either of the whole cut, or in part.

The greater portion of the coal in the affected area, was under cut by 7 foot Electric Machines, and in the majority of the places it was very evident, that there had been an attempt to shoot this cut down its full height, 8 feet, with two shots, one in each rib. We found that some of the miners had placed a center shot and two side shots. Many of the holes examined had been improperly placed and tamped with coal.

This mine was considered an especially safe one. No fire damp has ever been found, and though not a wet mine, it was not a dusty one. Owing to the undercutting of coal by machines, there was undoubtedly a deposit of fine impalpable dust wherever it could find lodgment, and

in suspension, throughout portions of the affected area, and this propagated the explosion, after the windy shot and exploded keg of powder referred to heretofore, had supplied the required force and heat, to put it in motion and distill its gases. The Company seem to have exercised vigilance and energy, in prohibiting the miners from carrying kegs of powder into the mine, despite which, it would appear from our findings and the sworn testimony of one witness, one man did have a keg of powder in the mine in violation of the rules of the Company, and the law of the State.

It is evident to us that this explosion was due to the excessive use of powder, and the improper placing of the hole, and the violation of the law. The miners employed in the mines in this District are chiefly negroes, and ignorant unskilled foreigners, who have no conception of their own danger, or those about them, arising from the careless handling of powder, and the excessive charging of holes.

A repetition of this deplorable calamity is possible at any time in the best conducted mine, unless there are some changes in the method of blasting the coal. We therefore recommend for this and all other dry mines, that the blasting of coal shall be done by shot firers, who shall have the entire charge of the placing of holes, and the amount of powder to be used, and that the shooting be done after the employes have retired from the mine. That all holes shall be tamped with clay. That the ribs and top near the working faces of a machine mine, be washed down with water at fixed intervals and that the bug dust be loaded out before firing the shots, and for this particular mine, or any other where the coal exceeds six feet in height, that it shall be shot down in two benches.

In conclusion, we beg to report that the haulage and ventilation equipment are thoroughly up to date. The fan produced 96,000 cu. feet at the last inspection of the District Inspector. This air was divided into two currents, and was well distributed throughout the workings.

Yours very respectfully,

D. R. PHILLIPS,

District Inspector.

Jan. 8, 1909.

Huntington, W. Va., January 9, 1909.

MR. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

Dear Sir:—At the Lick Branch mine of the Pocahontas Consolidated Collieries Co., in McDowell Co., there occurred an explosion on December 29, 1908, which took the lives of 50 men employed therein.

Several hours after the explosion happened, I arrived at the mine in company with mine inspectors D. R. Phillips, E. A. Henry and Wm. Warner. Upon our arrival there we immediately began to assist in recovering the bodies from the mine. This work we completed on the evening of December 31st and on the following day with the above

mentioned inspectors and yourself, I made an investigation of the mine. On January 4 and 5, 1909, I made a further investigation along with Mr. D. R. Phillips, the inspector of the district, and a number of other mining men. We examined very closely the sections of the mine which were found affected by the explosion and traced it to where we thought was its point of ignition.

The seam of coal which averages about 8 feet 3 inches in thickness is mined with electric chain machines, by means of hand picks, and in a number of places, I found that it was being shot from the solid.

The explosive used, was black powder and judging from the way a great number of holes were found drilled and the condition of the coal when shot down, it must have been used in very excessive quantities when considering it from any standpoint of safety.

Where undermined, the coal is generally shot down by a row of single shots across the face. In the entries, three holes are drilled to do the work. These holes are started in about five feet four inches from the bottom and inclined upwards until the end of the hole is about seven feet eight inches from the bottom. The rib holes in a number of places, I found inclined into the solid coal.

From information gained in and out of the mine, I have learned that the amount of powder used in the middle or "heaving" hole of an entry equals a cartridge $1\frac{1}{2}$ inches in diameter and four feet long.

The holes drilled are from six to seven feet long and the amount of tamping used, which is the coal slack of the mine, in one of these holes very often offers a less resistance to the powder in exploding than that which it has to exert in breaking through the seven feet eight inches which the end of the hole is from the bottom.

When black powder is used in such a manner, there cannot help but be large quantities of combustible elements such as hydrogen and carbonmonoxide gas produced in its combustion.

At present the mine is being developed on the two and three entry system. Rooms are turned off these entries on 120 feet centers. Even though break throughs would be driven as required by law and no brattice used to conduct the air, the faces of those breakthroughs would go a considerable distance ahead of ventilation before cutting through such thick pillars. This system of working a mine with such thick pillars should be condemned as it allows the working faces to advance too far ahead of ventilation.

In many places, I found the faces advanced a considerable distance ahead of the last breakthrough through which the ventilation was conducted and in making the examination of the mine, I could not find any evidence that brattice had been used to conduct the air to these faces. The mine is not known to have generated explosive gas, but, the combustible elements produced in the shooting of black powder as it was done in this mine could find easy lodgment in such places ahead of ventilation.

The mine cannot be considered as a dry and dusty one, but, I do think that enough dust is held in suspension in the atmosphere of the mine from the cutting of the coal and the promiscuous shooting that it was being done to help propagate an explosion once it was started.

The place that suggested itself as the most probable initial point of the explosion is at the face of room 7 off of the second right entry from Dip B entry. This room has only advanced in a few feet from the entry. The face of the entry has not been driven beyond the inside rib of this room and an entry breakthrough has been cut through directly in front of it. At the face of the room a hole was fired and from the appearance of the coal, it would be classed as a windy one. An empty car stood in the place ready to be loaded and the men who were supposed to load it were found over in the parallel entry where they evidently had gone to seek protection from the shot when it was fired. The ribs are thickly coked near the place, which diminishes in thickness going out the parallel entry towards the Dip B entries. From this point, it went to the old main entries where the force divided, that going out these entries spent itself out the Tug River opening and through the outer workings of the mine. The other force shows that it went into the old main entry workings, through the rooms to 11-2 entry from where it spent its force through the outer workings.

The explosion from its initial point was propagated by the dust held in suspension in the atmosphere of the mine and the resulting gases from the excessive shooting of black powder.

To prevent a re-occurrence of such a disaster I would recommend that the use of black powder and all high flaming explosives be prohibited; that the coal be double shot or sheared in addition to having it undercut so as to reduce the excessive use of the explosive used; and have the air conducted to the working places to keep them well ventilated.

Respectfully yours,

P. A. GRADY.

Mine Inspector Twelfth District.

REPORT OF LICK BRANCH MINE EXPLOSION.

Clifton, W. Va., January 19th, 1909.

HON. JOHN LAING,

Chief of Department of Mines,
Charleston, W. Va.

Dear Sir:—I hereby submit the following report of the disastrous explosion which occurred at 2:30 P. M. December 29th, 1908, whereby fifty persons lost their lives in the Lick Branch Mine located in McDowell County, West Virginia. It is owned and operated by the Pocahontas Consolidated Collieries Company.

On the date of this explosion I was in McDowell County, assisting

District Inspectors D. R. Phillips, Warner and Grady, in making special inspections of important mines, in compliance with your instructions.

We arrived at the Lick Branch Mine a few hours after the explosion, and immediately took charge of the work of restoring the ventilation, and removing the dead bodies from the mine. Upon entering the mine, we found that it was a local explosion, confined to what is known as the Old Main and Tug River opening, and in no way affecting the New Main workings.

On January 1st, 1909. In Company with Chief Laing, District Inspectors, D. R. Phillips, Warner and Grady with Company officials, we entered the effected part of the mine for the purpose of an investigation, as to the origin and cause of the explosion. In a number of instances we noted that working places both rooms and headings were driven a distance beyond what is known as the eighty foot limit between the breakthroughs; we also found in several working faces where the coal had been shot from the solid, and many of the holes examined had been improperly placed, and tamped with fine coal. In this section of the mine the coal has an average thickness of eight feet, and the greater portion of the coal is undercut by a seven foot Electric Machine, and in many places it was evident that such cuts had been shot with two holes, one in each rib.

In our investigation we found several places in the advance workings either of which could have been the point of origin, as in my judgment, this explosion was principally due to the excessive use of black powder, aided and increased by dust to some extent, as the principal number of dead bodies taken from the mine showed evidence of suffocation. And but few places that were extremely dry showed evidence of great force, which is usually the case in dust explosions.

The natural conditions of this mine are found to be above the average mine throughout the state, and at no time during the work of recovering the dead bodies, or in our final investigation were we able to find the slightest trace of fire damp. While there were no large accumulations of dust in any part of this mine, it is a well known fact, that the undercutting of coal by machinery and solid shooting creates a considerable amount of fine dust, which finds lodgment on ribs, roof and pavement, and is readily put in suspension by an overcharge shot, or by an explosion of a keg of powder, either of which will supply the required force to put it in motion and furnish the heat to distill its gases, with dangerous results to life and property.

As stated before in my opinion this explosion was due to the excessive use of black powder, and to eliminate a repetition of this calamity, I recommend for this and all other dry mines, that safety explosives shall be used in shooting the coal, and that solid shooting shall be strictly prohibited, and where black powder is used in blasting of coal, Shot firers shall be employed, who shall have charge of plac-

ing the holes and the amount of powder to be used. All holes to be tamped with clay, and the shooting to be done after the employes have retired from the mine, and that all dusty sections be kept thoroughly watered at all times while the mine is in operation.

In conclusion I desire to say, that the equipment for ventilation was sufficient to furnish the necessary amount of air for the proper ventilation of the mine, if properly distributed to the working faces.

Respectfully yours,

EARL A. HENRY,
Inspector Fifth District.

LICK BRANCH MINE SECOND EXPLOSION.

The second explosion occurred at the Lick Branch Mine at 8:40 A. M. January 12th, 1909, killing sixty-five miners and injuring one.

This mine is located on the main line of the Norfolk and Western Railroad, about eighteen miles west of Bluefield, W. Va. The elevation of the drift mouth on the Lick Branch side is 2160, and the elevation on the drift on the Tug River side is 2115. The elevation of the fan, about 2500 feet to the North west of the Lick Branch opening, is 2084. The elevation of the Norfolk and Western Railroad at Switchback, is 2054. Those levels refer to the mean tide elevation. From these elevations we find that the coal is about one hundred feet above the level of the creek at the Lick Branch opening.

The Lick Branch was first opened up by the Norfolk Coal & Coke Company, in 1890, and was under the management of Mr. S. M. Buck. President, E. W. Clark and other Bankers of Philadelphia, Pa., were the principal owners.

Mr. Jenkins Jones acquired the Clark interests in 1898 or 1899. Mr. Isaac T. Mann was President, Mr. Jenkins Jones was Vice President and Mr. James Ellwood Jones was General Manager.

On July 1st, 1907, the properties of the Pocahontas Consolidated Company and the Pocahontas Collieries Company were merged, and the Company is now styled the Pocahontas Consolidated Collieries Company, Incorporated. Mr. Isaac T. Mann is President. Mr. C. S. Thorne is First Vice President. Mr. Jenkins Jones is Second Vice President, and Mr. James Ellwood Jones is General Manager.

The minimum output of the mine was 5,705 tons of coal in 1890, and its maximum output was 161,166 tons of coal in 1906.

The plant has 158 coke ovens, which have been in blast since the opening of the operation, except for a few months during the year of 1908.

In my report of the first explosion, I noted that the mine is developed by two main entries, running parallel to each other and about 2000 feet apart. One of the entries is designated as the New Main drift of Lick Branch opening, and the other drift as the Old Main drift or Tug River opening.

The first explosion occurred between the old Main or Tug River opening and the New Main; but did not extend east of the New Main entry. (See map for location of bodies in first explosion, filed with said report).

The coal mined is the No. 3 Pocahontas seam and has an average thickness of eight feet six inches clean coal. It has a sandstone roof and practically no timber is used in posting.

The mine has always been perfectly free from explosive gases. In fact no explosive gas has been found in the mine either before or after each of the explosions.

The mine is ventilated by an exhaust fan 20 feet in diameter, 110 revolutions per minute, driven by 100 Horse Power, 2200 volt, 3 phase A. C. Motor. The fan was originally built by Kenny & Company, Scottsdale, Pa.; but has been recently rebuilt by the company.

The fan was not affected by the explosion so they were able to start it again at once.

The ventilation of the mine at this time was conducted by one intake. The air entering in at the New Main drift and then was conducted to the face of third X entry, and then back to the fifth X entry, through 5-1 entry to the face of eighth X entry. Then through 8-1 entry to its face. Then to eleventh X entry, through 11-2 to 12 X entry, and then back to the Old Main entry, to Dip B or Italy, to face of B-1, and then again back to Old Main entry and to tenth X entry, and from there through Old Main entry to the fan. (See map attached to this report.)

The second explosion seemed to have originated on the east of the New Main entry and to have extended all over the mine.

The Department of Mines was notified of the explosion at 9:02 A. M. on January 12th—just 25 minutes after it occurred.

I left by the first train to the scene, arriving there that evening. I found the mine in charge of District Inspectors D. R. Phillips and William Nicholson, who had a force of men working on the recovery of bodies. I remained until the following day when I returned to Charleston. District Inspectors Henry and Grady afterwards arrived at the mine and assisted in the recovery of the bodies, so that by Friday evening January 15th the mine was cleared of all the dead bodies.

For a location of the position of the bodies as found by the rescuing party see map attached to this report. The numbers refer to the location of the body, also to the name as given in the testimony of the physicians at the Coroner's Inquest.

I arrived again at Lick Branch mine on the evening of January 15th and on the next day, January 16th, together with District Inspectors D. R. Phillips, Earl A. Henry, William Nicholson, P. A. Grady, several mine officials and mining experts, made a careful examination of the workings of the mine on the east side of the New Main entry, for the purpose of ascertaining, if possible, the cause of the second explosion.

We found that black powder was used by the miners in blasting down their coal. As the thickness of the seam is 8 feet 6 inches and is undercut by a seven foot Electric Mining Machine, it would naturally take considerable force to blow down the coal.

The miner begins his hole at about 5 feet from the bottom and bores it upwards so as the back part of the hole will be about one foot from the roof. The depth of the hole will be seven feet, the same as the undercut.

We found an overcharged hole in room No. 21, 5-1 entry, which in our judgment, was, in all probability the initial point of the explosion. This hole was bored on the left rib of the room, and was evidently tamped with slack coal. The coal was blown back from the face and across the room showing that considerable force was produced by the powder loaded in the hole.

The dust adhering to the coal on the ribs, was charred and coked. Also the slack on the floor of the room was coked to a depth varying from one-half to one inch thick near the face of the room.

There is a breakthrough started on the right of this room, about 50 feet from the face of the room. In this breakthrough were found the bodies of two men. (Nos. 29 and 30 see Map attached.) These bodies were badly burned, their clothing having been burnt off and their flesh seemed also to be burned. It would seem, as if these men had gone into this breakthrough to seek refuge while firing the shot.

The effect of the overcharge hole was, that probably a considerable amount of powder was not consumed by blasting the coal, but was spent by burning in shape of a flame. This in turn taking up the finely powdered dust in suspension was doubtless the initial point of the explosion. The single line of force shown in this room and the direction taken from here, determined in our mind that this was the initial point of the explosion.

The condition of 5-1 entry by its charred ribs and coked coal gave additional proof of the blown out shot.

The explosion passed down the room, began to distribute itself throughout various directions in the entry. One part of the force going down fifth X entry to third X entry. Another force going through 5-1 entry to eighth X entry and from there to 8-1 entry, and these forces going through the New Main entry to 11th X entry, and from there to the Old Main entry. Then along this entry to the Tug River opening and also to the fan entrance. Three bodies (Nos. 63, 64 and 65 see Map) were found in Old Main entry. One body (No. 58 See map) was found within 350 feet from Tug River opening.

In studying the layout of the Lick Branch mine, we find that the method of working same, was along practical lines, and evidently no expense was spared to bring the property to its greatest efficiency, both as to ventilation and the safety of its employees.

It is an evident fact, that in mining this seam of coal, other means than pick mining must be employed, and that the blasting of the coal can be accomplished with a minimum amount of danger. In order to accomplish this I think it is necessary to employ shot firers, who shall have charge and be responsible not only for the firing of the shots, but for the quality and quantity of explosives used. Also that all holes should be tamped with clay. That in gaseous mines some safety explosives other than black powder be used. That the blasting as far as

it is possible should be done between shifts, when the men other than the shot firers are out of the mine. Also that the dust from the machine cuttings should be first loaded out before firing the holes. There is no doubt that at present one of the most dangerous conditions in the mine is occasioned by the accumulation of coal dust.

There are several methods that can be employed to keep the mine watered and the air moistened so as to saturize the dust.

I herewith attach the report of the District Inspectors, E. A. Henry, D. R. Phillips and P. A. Grady, also a Map of the mine showing the position in the mine of the bodies as found by the recovering party.

Respectfully submitted,

January 26th, 1909.

Charleston, W. Va.

JOHN LAING,

Chief of Department of Mines.

State of West Virginia:

County of McDowell: ss.

An inquisition taken at Switchback, in the said County of McDowell on the 13th day of January, in the year 1909, and following days, before C. W. White, a Justice of the Peace of said County, upon the view of the bodies of Henry Lee and divers other persons there lying dead.

The jurors sworn to diligently inquire and true presentment make when, how and by what means the persons whose bodies lay dead before them came to their respective deaths upon their oath do say that the said persons, to-wit:

- | | |
|----------------------|------------------------|
| 1. Everett Phillips, | 33. Dowdy Miller, |
| 2. Luther Boldin, | 34. Peter Heppenstall, |
| 3. Walter Giles, | 35. Unidentified, |
| 4. John Hunter, | 36. C. J. Hariston, |
| 5. George Enssey, | 37. J. Henry Bolen, |
| 6. J. H. Cobbs, | 38. Mike Robensky, |
| 7. Chas. Phillips, | 39. Mel Hunter, |
| 8. A. R. Jones, | 40. Jno. Mitchell, |
| 9. Frank Hairston, | 41. H. A. Leonard, |
| 10. Ed. Rose, | 42. S. C. Clark, |
| 11. Brown Lee, | 43. Unidentified, |
| 12. Unidentified, | 44. Unidentified, |
| 13. Unidentified, | 45. Jno. Mahoney, |
| 14. Henry Lee, | 46. Albert Abell, |
| 15. George Peters, | 47. Henry Waller, |
| 16. Ernest Terry, | 48. Unidentified, |
| 17. Unidentified, | 49. Tobe Hutcheson, |
| 18. Unidentified, | 50. Walter Martin, |
| 19. Elk Clark, | 51. Jim Martin, |
| 20. Unidentified, | 52. Bruce Mann, |
| 21. A. R. Miller, | 53. Chas. Howard, |
| 22. Joe Jones, | 54. Floyd Buffalo, |
| 23. Taylor Staples, | 55. Chas. Wellford, |
| 24. David Surratt, | 56. Jno. Smith, |
| 25. Ed. Collins, | 57. Walter Eversole, |

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- | | |
|----------------------|------------------------|
| 26. Riley Surratt, | 58. Con Holladay, |
| 27. Anthony Johnson, | 59. Clarence Mitchell. |
| 28. Lemuel Dean, | 60. Dan Watson, |
| 29. James Ayers, | 61. A. P. McDade, |
| 30. Robt. Wyatt, | 62. Will Durphey, |
| 31. Henry Bowles, | 63. Jno. Hague, |
| 32. Dan Arrington, | 64. Thos. Myers, |
| 65. Robt. Buffalo. | |

came to their death by an explosion in the Lick Branch Mine, caused by an overcharge shot of gun-powder in room 21 off 5-1 entry in what is known as new main of said mines.

As we, the jury according to the evidence in the above cases further say that we exonerate the Pocahontas Consolidated Collieries Company, Incorporated or the Lick Branch Colliery from all blame and responsibility for said explosion.

In testimony whereof the said Justice and Jurors hereto set their hands, this 16th day of January, 1909.

C. W. WHITE, Justice of the Peace.

W. R. SHEETS, Juror.

O. R. ANDERSON, Juror.

W. C. HORTON, Juror.

E. V. BAILEY, Juror.

E. W. ST. CLAIR, Juror.

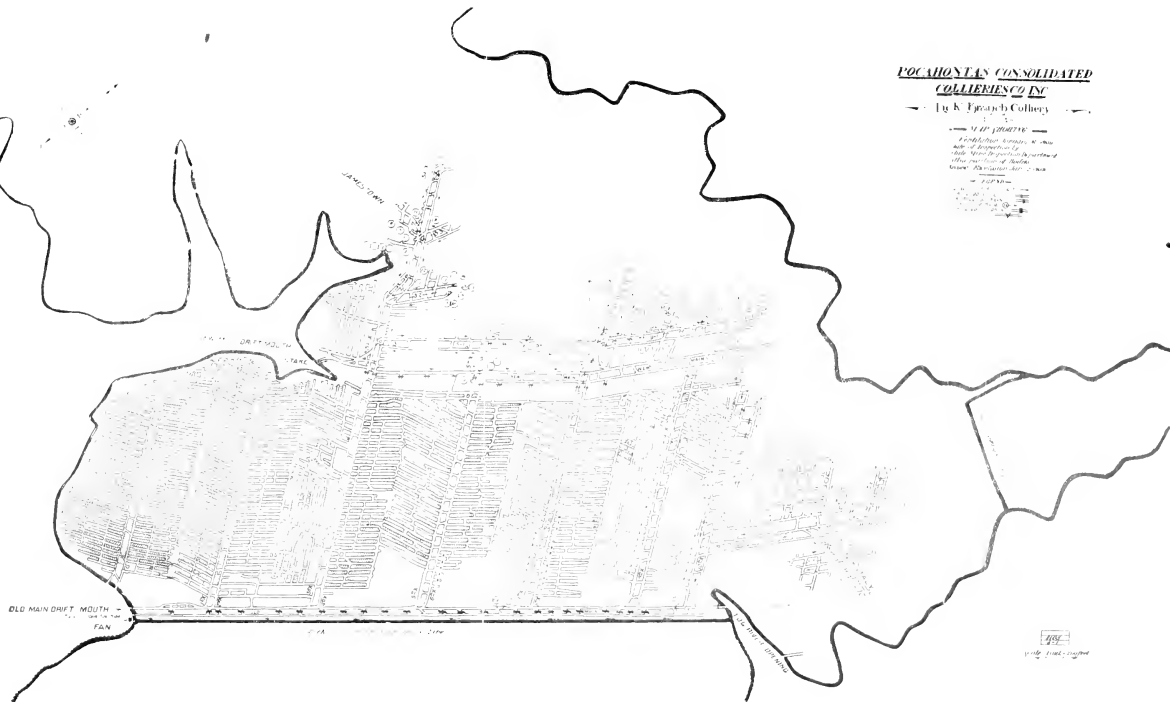
CHAS. HARRIS, Juror.

POCAHONTAS CONSOLIDATED
COLLIERIES CO. INC.

Fig. K. Fenwick Colliery

MADE PROPERTY
Fenwick Colliery, N. C.
Sub. Mine Inspection Department
U. S. Bureau of Mines
Approved: Assistant Dir. N. C.

LEGEND
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.



SECOND EXPLOSION.

REPORT ON LICK BRANCH MINE SECOND EXPLOSION.

Clifton, W. Va., January 19th, 1909.

HON. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

Dear Sir:—I herewith submit the following report of the second disastrous explosion which occurred at 8:30 A. M., January 13th, 1909, whereby sixty-five persons lost their lives in the Lick Branch Mine, located in McDowell County, West Virginia, operated by the Pocahontas Consolidated Collieries Company.

At the time of this explosion I was in Charleston, W. Va., at which place I received a message from Mr. Laing, Chief of the Department of Mines, advising me of the explosion, also instructed me to hasten to the scene and render all possible assistance in protecting the persons who were engaged in recovering the dead bodies from the mine.

I arrived at the mine the evening of the 13th, at which time I entered the mine and assisted in restoring ventilation and recovering the bodies.

On Saturday, the 16th, I again entered the mine in company with Chief Laing, District Inspectors D. R. Phillips, Nicholson and Grady, with Company officials and Mine experts, for the purpose of investigating the cause of the explosion, and if possible locate the point of origin. The condition inside of the mine gave evidence that the second explosion had occurred in a part of the mine known as the New Main; which part was not in any way affected by the first explosion. We made a thorough investigation of rooms and headings, at which time we found different places that might have been the starting point of this explosion, but the best evidence as to the point of origin was found at face of room No. 21, entry 5-1, where an overcharged shot had been fired on the left side of the room throwing coal to the opposite side of the room. There were also evidence of heat as charred dust on the ribs and pavement, and the bodies of two men found in the breakthrough were badly burned. Judging from the position in which they were found, it was evident that they had retired to this breakthrough to be out of range after lighting the shot at the face of the room No. 21, entry 5-1. The evidence on this entry is conclusive that the force came from the face of room No. 21, which is demonstrated by the rounded corners of the coal on the inby exposures, increasing in volume by a series of new explosions, or re-enforcements fed by accumulations of coal dust, and in all probabilities more or less blasting powder, and spreading destruction in every part of the New Main and the Old Main workings, unless where its force was diminished by the presence of water, or the absence of coal dust.

At no time during the work of removing the dead bodies from the mine, or in making the final investigation were we able to find the slightest trace of fire damp. This being the case in my judgment dust was the principal factor in this fearful explosion, causing great loss of life and destruction to property.

In some instances we found that rooms and headings were driven

beyond what is known as the eighty foot limit, between breakthroughs, we also found several places that gave positive evidence of excessive use of powder; which is certainly a dangerous practice in a dry mine. Where the coal is cut by machinery which creates considerable dust, that would be easily placed in suspension and fired by an overcharge or blown out shot, or by the explosion of a keg of powder.

I am in the opinion that in keeping all parts of the mine where there is an accumulation of dust well watered, especially near the working faces, where the blasting is done would minimize the chances of an explosion. And by the adoption of safety explosives and using clay for tamping with experienced men employed as shot firers, who would have charge of placing the hole and the amount of explosives to be used in each hole would certainly eliminate the probabilities of a general explosion throughout the mine.

Yours respectfully,

EARL A. HENRY,
Inspector Fifth District.

Charleston, W. Va., January 23rd, 1909.

MR. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

DEAR SIR:—At the Lick Branch Mine of the Pocahontas Consolidated Collieries Company, in McDowell county, there occurred an explosion January 12th, 1909, which took the lives of sixty-five men and injured one other person.

On January 5th, 1909, I left this mine after making an investigation of the explosion which occurred there on December 29th, 1908. A report of this investigation I submitted to you on January 9th, 1909.

Hearing of the explosion of January 12th, 1909, I immediately left my home and reached the mine at 1 p. m. on the day following. Up until Saturday I assisted in the rescue work of recovering the bodies, and on January 16th with a number of Inspectors, mining men and yourself I made an investigation to determine if possible what caused this second explosion; happening as it did so closely after the first one.

The condition which existed at this mine prior to the first explosion, I described to you in my report of January 9th, 1909. The mining of coal in one section of the mine was resumed a few days previous to the second explosion. This section is in a different part of the mine and a considerable distance from the seat of the first explosion.

Room No. 21 on 5-1 entry shows evidences where a shot had been fired in the left rib of the face. From the conditions of the remaining part of the hole and of the coal in the face, it could be seen that the charge of powder in this hole when fired caused a windy shot, which I believe distilled the gases from the coal dust held in suspension in the atmosphere of the mine and propagated itself by the dust furnished as it traversed the area covered.

In my first report to you, I made recommendations, which I thought covered the ground thoroughly to prevent explosions in such mines. As

these recommendations might be abused by the class of labor we have working in the mines of our state, I would suggest a further preventative, that shot firers be employed to shoot the coal when all other employes are out of the mine.

Very respectfully,

P. A. GRADY,
Mine Inspector 12th District.

REPORT OF LICK BRANCH SECOND EXPLOSION.

HON. JOHN LAING,
Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—I herewith submit the following report on the second explosion which occurred about 8:40 a. m., January 12th, 1909, resulting in the death of sixty-five persons. At the time the explosion occurred I was on train No. 15, on my way to visit some mines on the Norfolk & Western Branch of the N & W. R. R. Upon the arrival of the train at Northfork, I was informed of the disaster and learned at the same time that a freight train was ready to depart. I caught the freight and arrived at the mine about 1½ hours after the explosion occurred.

Upon my arrival the work of rescue was placed in my hands, and I began at once to organize for that purpose. I selected the most practical and trustworthy men available, as foremen for the several departments required in the prosecution of this work.

I was given valuable assistance in organizing the crews by Mr. Nicholson, Inspector for the Eleventh District, who arrived upon the scene in about two hours after my arrival. The organization was made more complete, by the arrival that evening of yourself, and the following day Inspectors Henry and Grady.

The work of rescue was carried on successfully without any interruption, the last bodies recovered in the afternoon of the 15th inst.

On the 16th I entered the mine with the Chief of this Department Mr. Laing, Inspectors Henry, Grady and Nicholson, Mr. Krebs and several other expert mining men, and mine officials, for the purpose of making an investigation as to the cause of the explosion, and the point where it originated. We began the investigation in the entries nearest the opening called the New Main opening; we made a thorough examination of rooms and entries from this point to the face of the workings of the New Main district, which area had apparently not been affected by the former explosion.

As we continued from the first mentioned entries inward to the center of the district, the evidence as indicated by the rounded inby projections and the direction in which the debris had been thrown, was plain that the force had come from some point in advance of us. This condition changed after we arrived at 5-1 entry, at this point the force seemed to have separated going in several directions. The point from which the force seemed to radiate was in the vicinity of No. 21 room, off the 5-1 entry. A careful examination of this room disclosed evidence of great heat having

been there, the ribs were charred and coked, as also was the face of the room and the coal on the floor. A shot had been fired on the left side of the room, a portion of the coal having been thrown to the right side; this together with the shattered condition of the coal strewn in front of the shot, was very good evidence of it having been heavily overcharged. Two men were found in a break-through off of this room in such position as to justify the assumption that they had retired there for protection when firing the shot. These men were badly burned.

We continued from this point forward, to the face of the workings and found evidence of the force in some parts, having become so reduced as to make it next to impossible to determine its direction, but upon moving onward we found that it had been re-enforced again, by dust, powder, or probably the necessary oxygen to produce a more complete combustion of the dust. It was an easy matter when this condition was encountered to trace its course by the direction of the wreckage, and work projections on the ribs.

We found conflicting evidence in many places, but No. 21 room on 5-1 entry seems the most probable point of origin. I re-entered the mine again on the 19th inst. for the purpose of accompanying some expert mining men in an investigation of the mine. I saw considerable evidence that had been overlooked upon our investigation of the 16th, but nothing that altered my opinion as to the point of origin.

Our investigation developed that in several instances, rooms and entries had been driven beyond the distance required by law between break-throughs; also that in many places an excessive quantity of powder was used in blasting, and that holes were improperly placed.

In my report on the first explosion which occurred December 29th, 1908, I made the statement that a repetition of this deplorable calamity might occur in this or any other mine, unless there were some changes in the method of blasting the coal. I also recommended certain methods by which the danger from this source would be minimized, and I would urge such legislation as would result in taking out of the hands of the ignorant inexperienced miners the charging and firing of shots, and place it in the hands of intelligent experienced men.

Yours very truly,

D. R. PHILLIPS,

Inspector Tenth District.

January 26th, 1909.

Thurmond, W. Va., March 15th, 1909.

MR. H. B. BEURY, Supt.

Beury Bros. C. & C. Co.,

Beury, W. Va.

DEAR SIR:—It has been fully demonstrated in many different ways, and by our experimental station at Pittsburg, that the use of black powder in mines located in the New River and Pocahontas coal fields is a source of great menace to life and property, and I am serving notice on all operators in this district that on and after April 1st, black powder will not be permitted to be used inside of these mines, and that nothing but the so-called safety powder will be permitted to be used to shoot coal

with, and then to be stemmed with clay from the surface, all holes to have full length fuse.

Dynamite will be permitted only for shooting slate or rock; then it must be placed within a hole with fuse the full length of the hole, and stemmed as above.

I will appreciate it very much if you will enforce the above instructions at your mine at once, as I will expect them to be enforced after this date.

Hoping to have an early reply to the above,

Yours very truly,

J. A. STRAUGHAN,
Mine Inspector 8th District.

State of West Virginia,

County of Fayette, to-wit:

An inquisition taken at Beury, Fayette county, West Virginia, on the 7th day of April, 1909, before J. E. Long, a Justice of the Peace of said county of Fayette, State of West Virginia, upon review of the bodies of:

Sam Melhorn

Andrew Melhorn,

John Blumefield,

William Smith,

Charles Jones,

Andy Sydenstricker, there lying dead.

Thereupon the following jurors were selected and sworn by the Court to answer questions to be propounded, touching their qualifications as jurors, in this matter:

J. R. Long, J. P.

J. H. Jones, Juror.

J. A. Higginbotham, Juror.

W. E. Gwinn, Juror.

C. I. Leet, Juror.

G. W. Olice, Juror.

Edward O'Halloran, Juror.

Present:—

Mr. John Laing, Chief Mine Inspector, for the State.

Mr. C. W. Osenton, of Counsel for the Beury Brothers Coal & Coke Co.

Here the Jury returned into Court with their verdict, signed by their Foreman, to which they all agreed, which is in words and figures following, to-wit:

"We, the Jury find that Sam Melhorn, Andrew Melhorn, John Blumefield, William Smith and Charles Jones came to their deaths on the 31st day of March, 1909, and that Andy Sydenstricker came to his death on the 5th day of April, 1909, from the effects of after damp caused by reason of an excessive charge of dynamite ignited and fired by Charley Jones, on a slab of slate or rock in fourth right entry off of Carter's entry, in the Echo

Mine, which is owned and operated by Beury Brothers Coal & Coke Company, at Beury, Fayette County, West Virginia.

(Signed.) C. H. FROST,
Foreman."

Sun, W. Va., Feb. 25, 1909.

MR. JOHN LAING,
Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—I wish you would arrange to make a trip to our Red Ash and Rush Run mines at your earliest possible convenience. Bring with you two of your assistants for the purpose of getting your opinion as to whether or not we should use safety lamps in these mines. If I am not mistaken it has been coal dust and not gas in these mines. As we have a good spraying system, by loading all dust that may be necessary and keeping the ventilation up to date we can dilute and render harmless all gas that may be generated and as we are using electricity at all working faces I cannot see why we should use safety lamps.

However, if after examination by the four of us it is decided we should use these lamps I will be willing to abide by said decision.

Yours very truly,

JAMES MARTIN,
General Manager.

MR. JAMES MARTIN, Gen Mgr.,
Sun, W. Va.

DEAR SIR:—I have made arrangements with my deputies, Wm. Warner, John Phillips, Earl A. Henry, J. A. Straughan and P. A. Grady, to visit your Red Ash and Rush Run mines on the south side of New River, relative to the use of safety lamps as per your letter.

As I formerly owned these mines I feel in justice to the Department and your company, to let these gentlemen determine this question rather than myself.

I hope it will be your pleasure to meet these gentlemen on Wednesday morning, that you may visit the mines jointly with them.

Very truly,

JOHN LAING,
Chief of Department of Mines.

Charleston, W. Va., March 12, 1909.

To District Mine Inspectors:—

Mr. William Warner,
Mr. John Phillips,
Mr. Earl A. Henry,
Mr. J. A. Straughan,
Mr. P. A. Grady,

GENTLEMEN:—The New River Collieries Company, at Rush Run and Red Ash mines on the South Side of New River, in Fayette County, West

Virginia, have written this office and asked for an investigation and decision, as to whether or not this Department persists in the use of Safety Lamps at the Rush Run and Red Ash mines.

As I formerly owned these mines, and the safety lamps were installed shortly after my leaving there, I desire that a very careful and conservative examination be made by you gentlemen, and your decision will be the ultimatum.

The Management claims that there is plenty of water in the mines to produce moisture, and that they are using safety powder, sprays and, etc., and that in their judgment they are being unjustly dealt with by being forced to use safety lamps. This is a question that I wish you to take ample time to go through all parts of these workings, and use your combined knowledge in a general way, and render to this Department a report in accordance with your best judgment of mines. I am,

Very truly,

JOHN LAING,

Chief of Department of Mines.

Thurmond, W. Va., 3-18-1909.

MR. JOHN LAING,

Chief of Department of Mines

Charleston, W. Va.

DEAR SIR:—In compliance with your instructions of the 12th inst., we submit the following report of the Rush Run mine.

We made our inspection of the above mine on March 17th.—

1st. As to Gas:—We made a thorough inspection and found no gas that could be detected with a safety lamp.

2nd. As to Dust:—Considerable dust was found in various parts of the mine.

3rd. As to Ventilation:—Not sufficient volume in circulation around some of the advanced workings.

We advise that the safety lamps now in use may be dispensed with, and urge that the following recommendations be complied with promptly. That the present system of shooting of coal be continued, viz.: The use of so-called safety explosives exclusively, clay tamping, and all firing to be done by a battery.

That all accumulations of dust be loaded out as far as possible. We heartily approve of the present use of sprays, and would suggest that the number of sprays be increased, and that the dust be kept thoroughly watered especially near the working faces.

Signed.

J. A. STRAUGHAN, Inspector 8th District.

WM WARNER, Inspector 7th District.

EARL A. HENRY, Inspector 5th District.

JOHN PHILLIPS, Inspector 9th District.

P. A. GRADY, Inspector 12th District.

DEPARTMENT OF MINES,
STATE OF WEST VIRGINIA,

JOHN LAING,
Chief of Department of Mines.

Charleston, March 10, 1909.

Mr. D. R. Phillips,
Mr. Wm. Warner,
Mr. John Phillips,
Mr. J. A. Straughan,

GENTLEMEN:—It has been fully demonstrated in many different ways, and especially by our Experimental Station at Pittsburg, that the use of Black Powder in mines located in the New River and Pocahontas coal field, is a source of great menace to life and property,—and you will please give notice to the management of all mines in your district operating in these seams; that on and after April 1st, black powder will not be permitted in these mines, and that nothing except the so-called safety powder will be permitted to be used for the shooting of coal.

I find that in some instances dynamite is still being used in breaking slate. It is absolutely necessary, that where dynamite or any other explosive is used in mines for the breaking of rock, of any kind, that a hole be drilled in such metals and the explosive placed therein and properly tamped in before shooting, and under no circumstances must sand blasting be permitted. I am,

Very truly,

JOHN LAING,
Chief of Departments of Mines.

Thurmond, W. Va., Mar. 18, 1909.

MR. JOHN LAING,
Chief Department of Mines,
Charleston, W. Va.

SIR:—In compliance with your instructions of the 12th inst. we submit the following report of the Rush Run mine.

We made our inspection of the above Mine on Mar. 17th.

1st. As to Gas:—We made a thorough inspection and found no gas that could be detected with a safety lamp.

2nd. As to Dust:—Considerable dust was found in various parts of the Mine.

3rd. As to Ventilation:—Not sufficient volume in circulation around some of the advanced workings.

We advise that the safety lamps now in use be dispensed with, and urge that the following recommendations be complied with promptly. That the present system of shooting the coal be continued, viz.: The use of so-called safety explosives exclusively, clay tamping, and all firing to be done by a battery.

That all accumulations of dust be loaded out as far as practicable.

We heartily approve of the present use of sprays, and would suggest

that the number of sprays be increased, and that the dust be kept thoroughly watered especially near the working faces.

Signed.

J. A. STRAUGHAN, Inspector 8th District.

WM. WARNER, Inspector 7th District.

EARL A. HENRY, Inspector 5th District.

JOHN PHILLIPS, Inspector 9th District.

P. A. BRADY, Inspector 12th District.

NEW RIVER COLLIERIES COMPANY,
Sun, West Virginia, March 22nd, 1909.

MR. JOHN LAING.,

Chief Mine Inspector,

Charleston, W. Va.

DEAR SIR:—I have just received a letter from Deputy Inspector Straughan to the effect that after April 1st, safety powder must be used in all of the mines in his district. I simply ask you if it is the intention of the Mine Department to force this rule, as you know there are mines in this district where black powder has been used for twenty years and no accident has happened. Of course mines like Red Ash or Rush Run need safety powder, but a mine like Brooklyn I do not believe it necessary, but will be governed according to the reply received to this letter.

JAMES MARTIN,
Charleston, W. Va., 3-11-09.

To District Mine Inspectors:

Mr. William Warner,

Mr. John Phillips,

Mr. Earl A. Henry,

Mr. J. A. Straughan,

Mr. P. A. Grady.

GENTLEMEN:—The New River Collieries Company, at Rush Run and Red Ash Mines on the South Side of New River, in Fayette County, West Virginia, have written this office and asked for an investigation and decision, as to whether or not this Department persists in the use of Safety Lamps at the Rush Run and Red Ash mines.

As I formerly owned these mines, and the safety lamps were installed shortly after my leaving there, I desire that a very careful and conservative examination be made by you gentlemen, and your decision will be the ultimatum.

The Management claims that there is plenty of water in the mines to produce moisture, and that they are using safety powder, sprays and, etc., and that in their judgment they are being unjustly dealt with by being forced to use safety lamps.—This is a question that I wish you to take ample time to go through all parts of these workings, and use your combined knowledge in a general way, and render to this Department a report in accordance with your best judgment of mines. I am

Very truly,

JOHN LAING,
Chief of Department of Mines.

DEPARTMENT OF MINES,

STATE OF WEST VIRGINIA,

JOHN LAING,

Charleston, 3-25-09.

Chief of Department of Mines.

To District Mine Inspectors:—

J. A. Straughan,

WM. WARNER,

EARL A. HENRY,

JOHN PHILLIPS,

P. A. GRADY,

SIR:—As per your request of the 8th inst., I herewith enclose you copy of report on the Red Ash and Rush Run mines, also copy of letter written to Mr. Mr. James Martin, Gen. Mgr., Sun, W. Va.

Very truly,

JOHN LAING,

Chief of Department of Mines.

DEPARTMENT OF MINES,

Charleston, W. Va., March 24, 1909.

MR. JAMES MARTIN,

General Manager,

Sun, W. Va.

DEAR SIR:—In compliance with your request that you be given permission from this Department to use open lights in your Rush Run and Red Ash Mines. Would say in this connection, that I have had District Inspectors Mr. J. A. Straughan, Wm. Warner, Earl A. Henry, John Phillips, and P. A. Grady to inspect these mines for this purpose. And after receiving their report and considering same, I give you permission to use open lights in this mine on and after Wednesday the 31st day of this month, with the following understanding.

That you continue to use safety powder in these mines exclusively, and furnish clay at all points of these mines so that shot firers can easily secure same for the purpose of tamping, and that all shots be fired by electric batteries; that no shooting will be permitted from the solid, and that all dust will be kept properly cleaned, and road ways and rooms well dampened by watering, and that your present system of sprays will be increased in number so as to keep sufficient moisture near your working places.

And it is especially understood that your ventilation be so distributed that a sufficient volume at all times be in circulation around working faces and advanced workings, to carry off and render harmless any gases that may escape. I am,

Very truly,

JOHN LAING,

Chief of Department of Mines.

DEPARTMENT OF MINES,
State of West Virginia.
Charleston, June 5, 1909.

Mr. John J. Lincoln, Secy.,
Pocahontas Coal Operators Assn.,
Elkhorn, W. Va.
Mr. G. H. Caperton, Secy.,
New River Coal Operators Assn.,
Caperton, W. Va.
Mr. Neil Robinson, Secy.,
West Virginia Mining Assn.,
Charleston, W. Va.
Mr. J. B. Hanford, Pres.,
West Virginia Coal Mining Institute,
Morgantown, W. Va.
And,

To All Mine Operators in General:

Gentlemen:—Answering your request for information as to the attitude of this Department in regard to the use of black powder in the coal mines of West Virginia, will state that the rule of this Department is as follows:

No black powder, dynamite, or explosives other than those recognized by the United States Government as a safety explosive shall be used at any time in the mines of this State, and such safety explosives shall be used only subject to the proper regulations governing their use.

Before discussing any exceptions to this rule, I desire to briefly outline the present conditions of the mining industry in this State, with a view to make clear to you the reasons which in my opinion as Chief of the Department of Mines render it imperative that this Department should take a determined stand in this matter. It is unnecessary and would be unbecoming for me to assume that you and those who you represent, or the operators of this State generally, are slower to recognize the duty of this Department to place the lives and safety of the miners and mine employes of the State above and beyond all commercial or material considerations than I am.

My personal experience as an operator, and my knowledge of those engaged in this industry in West Virginia, will not permit me to hesitate for a moment in asserting that the operators of this State will unite and co-operate with this Department in any reasonable regulations for the prevention of personal injuries and loss of life without regard to pecuniary considerations.

We have at this time employed in and about the mines of the State some 60,000 miners and mine laborers. Development work is being rapidly done, new mines are being opened, old mines are installing new equipment, materially increasing their production; and the indications are, that when conditions become normal and the looked-for resumption of business activity is realized, there will be, upon a conservative estimate, a shortage of from 18,000 to 25,000 mines and mine laborers. The same conditions which create the necessity for additional mine laborers

for the profitable and economical operations of our mines, will prevent the importation of practical miners from other coal fields, thereby necessitating supplying the demand for additional laborers from foreign countries—a class of labor, which past experience has taught us, has no experience whatever in mines, nor realization whatsoever of the dangers that surround the every day operations of a coal mine; whose lack of education, experience and practical knowledge endangers the safety and lives of every miner and mine laborer in the State.

At the present time we have employed in this State a sufficient number of this class to menace the lives of their fellow workmen. The additional number which must necessarily be added to meet the conditions above outlined, makes it necessary to meet this problem squarely, and to allow no pecuniary reasons, personal inconvenience, or other consideration to prevent this Department, aided and assisted by the operators of the State, for putting into force and effect without delay, all reasonable rules and regulations which will prevent the loss of life and the destruction of property, which in my opinion, is obliged to result from these conditions unless the greatest vigilance is shown by this Department in providing against these contingencies and the greatest loyalty shown by the operators to the Department in its efforts to preserve the safety and lives of the miners and mine laborers of the State, and the property of those engaged in this great industry.

I cannot give permission to any mine in the State to continue the use of black powder. Conditions in coal mines change from day to day. A mine in a condition to be called safe now, may, in a very brief period, from various causes, become dangerous. This Department cannot place itself in a position to be held responsible for damages resulting from mining methods it does not approve of, and can, therefore, only lay down certain rules and regulations applicable to all the mines of the State.

The exceptions to the general rule above quoted are as follows:

(1) Black powder may be used in the mines of this State, provided that a sufficient number of officers be employed in such mines to supervise and direct all drilling, tamping, etc., and to see that this work is done in a practical and legal manner. It will be the duty of such officer to further see that all rooms, entries and other places in the mines are properly posted and all conditions safe before any shooting is done.

They shall further direct how many shots shall be fired in one room, and see that these shots are fired as the law directs. Such officers must be selected by the State District Mine Inspector in charge, who will examine each of them as to a knowledge of the mining law of the State, and as to a general knowledge pertaining to the shooting of coal, rock, etc., under the conditions existing in the mines of this State. Such officers must also be examined as to evidence, knowledge and safe use of black powder and other explosives; and will only be granted permission to act upon showing general proficiency in such examinations.

(2) Coal operators may use black powder for blasting purposes, provided they all agree that no blasting of any kind will be permitted to be done in such mines during the day, or when as many as ten miners are at work in the mine; That all shooting will be done after night, and when

all miners who are employed during the day, are out of the mine; that shot-firers specially qualified, and who have been given permission by the State District Mine Inspector, after examination as provided in rule First, be employed to do the shooting.

Such shot-firers shall commence shooting in places nearest to the points where the air is discharged on the outside, for the purpose of preventing an explosion from the gases generated by previous shots; such shot-firers shall immediately after the completion of their work, post notices in a conspicuous place in the mine, provided for that purpose, in which shall be indicated the number of shots fired; and if for any reason they should fail to fire any shots in the mine that were charged, or any that were not charged, they shall also specify the room and describe the entry where such shots were placed, and give their reason for not firing same.

No shots that have missed firing shall be drilled out, but a new hole shall be drilled in such a manner that it will not come in contact with the powder which has been placed in the original hole, and care must be taken in charging the second hole in order to erase the danger of an over-charge.

(3) Mine operators may refuse to employ Shot Inspectors in his mines, provided that he will agree that no black powder, dynamite nor any other explosive, other than that permitted by the United States Government as a safety explosive shall be used at any time whatever for blasting purposes in such mines, and these explosives shall be used only as the law provides, relative to shooting of all kinds.

I enclose a list of permissible explosives as prescribed by the United States Government and referred to herein.

I hope that this will give you the information that you desire, and confidently rely upon the co-operation of your Association and the other coal operators of this State in my efforts to safeguard the mining operations of the State and enforce all proper rules and regulations without fear of discrimination.

Very truly,

JOHN LAING,

Chief of Department of Mines.

P. S.—For further information I would advise that each Inspector in all of the mining districts of the State will have instructions to put the above into effect by July 15th.

This Department began the publication of a monthly Bulletin, beginning April 1908, in order to make public the work done by the Mine Department, showing the conditions of the mines, circulars of instructions and rulings as they were issued by the Department in advance of the usual Annual Report; but they were discontinued on December 31st, 1908, for the reason of no funds being available for their continuance.

During the year ending June 30th, 1909, there was one hundred and twenty-one prosecutions, for violation of the Mine Laws. Attention is called to the following table, which shows there was sixty-six prosecutions for violation of the Oil Regulations and forty-one for solid shooting.

PROSECUTIONS FOR VIOLATION OF THE MINING LAWS DURING THE YEAR ENDING JUNE 30th, 1909,

| No. of District. | County. | Using Dynamite
Contrary to In-
spectors' Instruc-
tions. | Failure to furnish
Record Books and
Anemometer. | Violation of Oil
Regulations | Permitting boys un-
der legal age to
work. | Taking Excessive
quantity of Pow-
der into the mine. | Failure to take Air
Measurements. | Lighting Cigarettes
in gasous mine—
locked safety lamp
being used. | Solid shooting. | Incompetent Mine
Foreman. | For Pirating Powder
in the mine with-
out drilling hole. | Failure to report
Accidents. | Totals. |
|------------------|------------|---|---|---------------------------------|--|--|--------------------------------------|---|-----------------|------------------------------|--|---------------------------------|---------|
| 3 | Barbour | — | — | 6 | — | — | — | — | — | — | — | — | 6 |
| 4 | Monongalia | — | — | 4 | — | 2 | — | — | — | — | — | — | 4 |
| 4 | Tucker | — | — | — | — | — | — | — | — | — | — | — | 2 |
| 5 | Mineral | 1 | — | — | 1 | — | 1 | — | — | — | — | — | 3 |
| 5 | Mason | — | 1 | — | — | — | — | — | — | — | — | — | 1 |
| 5 | Kanawha | — | — | 11 | — | — | — | — | — | — | — | — | 11 |
| 5 | Fayette | — | — | 1 | — | — | — | — | — | — | — | — | 1 |
| 5 | Fayette | — | — | — | — | — | — | — | — | — | — | — | 1 |
| 5 | Raleigh | — | — | — | — | — | — | — | 11 | — | — | — | 11 |
| 5 | Fayette | — | — | 3 | — | — | — | 1 | — | — | — | — | 4 |
| 5 | Dowell | — | — | 6 | — | — | — | — | 15 | — | 2 | — | 23 |
| 5 | Jersey | — | — | 11 | — | — | — | — | 12 | — | — | — | 23 |
| 5 | Dowell | — | — | 7 | — | 2 | — | — | 3 | — | — | 1 | 13 |
| 5 | Dowell | — | — | 16 | — | — | — | — | — | — | — | — | 16 |
| 5 | Dowell | — | — | 1 | — | — | — | — | — | — | — | — | 1 |
| 5 | Dowell | — | — | 1 | — | — | — | — | — | — | — | — | 1 |
| 5 | Dowell | — | — | 66 | 1 | 4 | 1 | 1 | 41 | 1 | 2 | 1 | 121 |

The following table furnished by the U. S. Assistant Engineer, Mr. Thos. E. Jeffries, of Charleston, W. Va., shows the important features of the locks and dams on the Kanawha River to which the barges pass in transporting their coal to the Ohio river. A barge contains usually from 12,000 to 15,000 bushels or 480 to 600 net tons of coal. For towing the barge there is a charge of five dollars per lock when the dams are up, when the dams are down the charge is twenty dollars from Raymond City to Pt. Pleasant, thirty dollars from Winifrede, thirty-five from Pool No. 3 and forty from Pool No. 2. From Pa. Pleasant to Cincinnati thirty dollars for barge.

TABLE OF IMPORTANT FEATURES OF LOCKS, AND DAMS. KANAWHA RIVER, WEST VIRGINIA.—LOCK.

| Number. | Miles from Mouth | 1897 low water. | Clear width. | Available length. | Length over all. | Length between Quoins. | Tide Relief. | | Style. | Pass. | Weir. | Pass Trestles. | Pass Wickets. | Weir Wickets. | Pass Sill. | Weir Sill. | Upper Pool. | Normal Lift. | When Finished. | Number. |
|---------|------------------|-----------------|--------------|-------------------|------------------|------------------------|--------------|--------------|---------|-------|-------|----------------|---------------|------------------|------------|------------|-------------|--------------|----------------|---------|
| | | | | | | | Miter still. | Top of wall. | | | | | | | | | | | | |
| 2 | 84½ | 385.46 | 50 | 271 | 377 | 308 | 578.75 | 609.75 | Fixed | | 248 | 16 ft. 2¾ in. | 13 ft. 9 in. | 6 ft. 3½ in. | 561.00 | 567.75 | 597.75 | 10.33 | 1887 | 2 |
| 3 | 79½ | 571.22 | 50 | 272 | 381 | 312 | 566.75 | 596.75 | Fixed | | 248 | 17 ft. ½ in. | 13 ft. 10 in. | 5 ft. 3 in. | 553.50 | 561.50 | 587.42 | 13.67 | 1882 | 3 |
| 4 | 74¼ | 564.41 | 50 | 274 | 365 | 300 | 559.75 | 519.75 | Movable | | 250 | 16 ft. 8½ in. | 13 ft. 5½ in. | 7 ft. 7 in. | 546.50 | 552.00 | 566.50 | 7.25 | 1880 | 4 |
| 5 | 67¾ | 556.22 | 50 | 274 | 365 | 300 | 552.50 | 572.50 | Movable | | 248 | 16 ft. 9 in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 537.50 | 542.00 | 559.00 | 8.50 | 1886 | 5 |
| 6 | 54 | 548.61 | 55 | 313 | 410.5 | 342 | 543.75 | 565.50 | Movable | | 248 | 16 ft. 9 in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 537.50 | 542.00 | 559.00 | 8.73 | 1893 | 6 |
| 7 | 44 | 539.63 | 55 | 313 | 411 | 342 | 535.50 | 547.25 | Movable | | 248 | 16 ft. 9 in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 529.25 | 533.75 | 542.25 | 8.00 | 1893 | 7 |
| 8 | 36 | 531.27 | 55 | 313 | 411 | 342 | 526.00 | 539.50 | Movable | | 248 | 16 ft. 9 in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 521.25 | 525.75 | 534.25 | 6.25 | 1898 | 8 |
| 9 | 25¾ | 523.64 | 55 | 313 | 411 | 342 | 520.50 | 533.00 | Movable | | 248 | 16 ft. 9 in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 515.00 | 519.50 | 528.00 | 7.00 | 1898 | 9 |
| 10 | 19 | 517.41 | 55 | 313 | 411 | 342 | 514.00 | 526.00 | Movable | | 248 | 16 ft. 9 in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 508.00 | 512.50 | 521.00 | 10.92 | 1898 | 10 |
| 11 | 1¼ | 510.08 | 55 | 313 | 411 | 342 | 504.00 | 526.00 | Movable | | 304 | 16 ft. 9¾ in. | 14 ft. 0¾ in. | 9 ft. 2 5-32 in. | 508.00 | 512.50 | 521.00 | 10.92 | 1898 | 11 |

-----Top of wall head of No. 3—601.25.

Note:—Upper Miter Sill No. 2—589.75,
" " " " 3—576.75.

*OIL PRODUCTION OF WEST VIRGINIA.**As reported by the Geological Survey, Washington, D. C.*

| Regular Crude. | Quantity
(Barrels). | Value. | Average Price
Per Barrel. |
|-----------------------|------------------------|--------------|------------------------------|
| Years 1902-1908 | 79,322,923 | \$123,858.33 | \$1.57 |

| Lubricating Crude. | Quantity
(Barrels). | Value. | Average Price
Per Barrel. |
|-----------------------|------------------------|-----------|------------------------------|
| Years 1902-1908 | 52,020 | \$149,517 | \$2.87 |

COAL PRODUCTION BY GEOLOGICAL SERIES AND COUNTIES, 1909.

| COUNTY. | Monongahela Series
No. 15. | Cone-maugh Series
(Elk river)
No. 14. | Allegheny-Kanawha Series
No. 13. | Pottsville New River
Pocahontas Series
No. 12. | Total
(Tons
2240 lbs) |
|------------|-------------------------------|---|-------------------------------------|--|-----------------------------|
| Brooke | 309,223 | | 140,424 | | 449,647 |
| Hancock | | 46,756 | | | 46,756 |
| Marion | 3,733,765 | | | | 3,733,765 |
| Marshall | 233,848 | | | | 233,848 |
| Ohio | 158,327 | | | | 158,327 |
| Harrison | 3,005,689 | | | | 3,005,689 |
| Lewis | 13,780 | | | | 13,780 |
| Upshur | 56,021 | 4,568 | | | 60,589 |
| Barbour | 483,209 | 19,300 | 232,524 | | 735,033 |
| Monongalia | 207,495 | | 28,321 | | 235,816 |
| Preston | | | 654,333 | | 654,333 |
| Taylor | 421,344 | | 16,289 | | 437,633 |
| Grant | | | 177,406 | | 177,406 |
| Mineral | 342,810 | 94,053 | 308,795 | | 745,658 |
| Randolph | | | 463,206 | | 463,206 |
| Tucker | | | 1,005,873 | | 1,005,873 |
| Braxton | 93,024 | | | | 93,024 |
| Gilmer | 14,740 | | | | 14,740 |
| Mason | 106,802 | | | | 106,802 |
| Putnam | 378,420 | | | | 378,420 |
| Clay | | | 25,797 | | 25,797 |
| Fayette | | 144,100 | 6,325,273 | 1,128,374 | 7,597,747 |
| Kanawha | | 675,434 | 3,460,779 | | 4,136,213 |
| Boone | | | 3,451 | | 3,451 |
| Nicholas | | | 40,556 | | 40,556 |
| Greenbrier | | | | 32,296 | 32,296 |
| Raleigh | | | 166,312 | 1,631,500 | 1,797,812 |
| Mercer | | | | 2,103,263 | 2,103,263 |
| McDowell | | | | 9,415,069 | 9,415,069 |
| Lincoln | | | 49,954 | | 49,954 |
| Logan | | | 1,909,063 | | 1,909,063 |
| Mingo | | | 1,617,581 | | 1,617,581 |
| Wayne | | | 34,619 | | 34,619 |
| Totals | 9,558,497 | 984,211 | 16,660,556 | 14,310,502 | 41,513,766 |

PRODUCTION IN WEST VIRGINIA IN 1909, ACCORDING TO GEOLOGICAL SERIES AND COAL BEDS.

(Tons of 2,240 lbs.)

| COUNTIES. | Monongahela Series No. 15. | | | Conemaugh Series (Elk River) No. 14. | | | | Allegheny-Kanawha Series No. 13. | | | |
|--------------------------------------|----------------------------|------------|------------|--------------------------------------|--------|-------------|-----------------|----------------------------------|------------------------|-----------------------------|------------------------------|
| | Sewickley. | Red Stone. | Pittsburg. | Elk Lick. | Mason. | Mason-town. | Mahoning No. 5. | Up. Freeport Lewiston. | Lo. Freeport Coalburg. | Up. Kintan-ning, Winifrede. | Middle Kittami'g Ced. Gr' ve |
| Brooke | | | 309,923 | | | | | | 140,424 | | |
| Hancock | | | | | | | 46,756 | | | | |
| Marion | 25,379 | | 3,708,386 | | | | | | | | |
| Marshall | | | 253,848 | | | | | | | | |
| Ohio | | | 158,357 | | | | | | | | |
| Harrison | | | 3,005,689 | | | | | | | | |
| Lewis | | | 13,780 | | | | | | | | |
| Upshur | | 48,586 | 7,435 | | | 4,568 | | 232,524 | | | |
| Barbour | | 333,250 | 149,959 | | | | 19,300 | 28,321 | | | |
| Monongalia | | | 207,495 | | | | | 646,055 | | | |
| Preston | | | | | | | | 16,289 | | | |
| Taylor | | | 421,344 | | | | | | | | |
| Grant | | | | | | | | | | | |
| Mineral | 62,887 | | 279,923 | 28,482 | | 65,571 | | 150,724 | | 104,985 | |
| Randolph | | | | | | | | 463,206 | | 5,350 | |
| Tucker | | | | | | | | 445,569 | | | |
| Braxton | | | | | | | | | | | |
| Gilmer | | | 93,024 | | | | | | | | |
| Mason | | | 14,740 | | | | | | | | |
| Mason | | | 106,802 | | | | | | | | |
| Putnam | | | 378,420 | | | | | | | | |
| Clay | | | | | | | | 4,404 | | 21,333 | |
| Fayette | | | | | | 144,100 | | | | | |
| Kanawha | | | | | 29,520 | 645,914 | | 219,584 | 1,151,192 | 406,012 | 92,103 |
| Boone | | | | | | | | | | | |
| Nicholas | | | | | | | | | 27,089 | | |
| Greenbrier | | | | | | | | | | | |
| Raleigh | | | | | | | | | 166,312 | | |
| Mercer | | | | | | | | | | | |
| McDowell | | | | | | | | | | | |
| Lincoln | | | | | | | | 8,666 | | | |
| Logan | | | | | | | | | | | |
| Mingo | | | | | | | | | | | |
| Wayne | | | | | | | | | 12,404 | | |
| Totals | 88,266 | 381,836 | 9,088,395 | 28,482 | 29,520 | 860,153 | 66,056 | 2,216,289 | 1,497,481 | 1,890,562 | 202,202 |
| Monongahela Series No. 15. | | | | | | | | | | | |
| Conemaugh (Elk River) Series No. 14. | | | | | | | | | | | |
| Allegheny-Kanawha Series No. 13. | | | | | | | | | | | |
| Pottsville-New River Series No. 12. | | | | | | | | | | | |
| Total. 41,513,766. | | | | | | | | | | | |

9,558,497
984,211
12,774,858
18,196,200

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